

Department of Conservation and Natural Resources
Division of Environmental Protection
Receipt for Payment

Newmont Mining Corporation
1655 Mountain City Hwy
Elko NV 89801

Check #: Epayment
Check Date: 03/01/2012
Date Received: 03/01/2012
Receipt #: 61953

GOLD QUARRY;

Bureau	FY	Amount	Permit #	Invoice #	Fee type/Fee desc
Air Pollution Control	2012	5,000.00	1041-0793		Permit Fees Class I Minor Rev/Mod
		5,000.00			

Smith



**State of Nevada
Nevada Division of Environmental Protection**

Revenue and Invoice Management System

User: cdouglas
Level: 2

[Logout](#)

Level 1 Check Information			
Entered By:	<input type="text" value="ePayment"/>	03/01/2012 02:17:23 PM	EF <input type="text" value="61953"/>
Date Received:	<input type="text" value="03/01/2012"/>	Check Date:	<input type="text" value="03/01/2012"/>
		Check Number:	<input type="text" value="Epayment"/>
Facility: <input type="text" value="Newmont Mining Corporation/1655 Mountain City Hwy/Elko/Nv/89801"/>			
Check Name Address(comma seperated)	Notes: <input type="text" value="GOLD QUARRY"/>		
Deposit Slip:	Confirm No: <input type="text" value="12030132572837"/>		
Level 1 Last Update: <input type="text" value="ePayment"/> [03/01/2012 02:17:23 PM]			
Level 2 Revenue Allocation			
Amount:	<input type="text" value="5000.00"/>	Bureau:	<input type="text" value="APC"/>
Fee Code:	Permit No: <input type="text" value="1041-0793"/> Invoice No: <input type="text"/>		
Fee Desc:	Class I Minor Rev/Mod <input type="button" value="Split"/> Level 2 Last Update: <input type="text" value="cdouglas"/>		
Claimed by Bureau/Deposit: <input checked="" type="checkbox"/>		Fiscal Year: <input type="text" value="2012"/> [03/02/2012 09:50:19 AM]	
Additional Check Allocation Add/Update Facility			
Level 3 Revenue Allocation			
Approp. Unit:	<input type="text" value="318400"/>	Fund:	<input type="text" value="101"/>
Revenue GL:	<input type="text" value="3717 APPLICATION FEES"/> Level 3 Last Update: <input type="text" value="vahrstensen"/>		
Job Number:	<input type="text"/> [03/02/2012 04:29:23 PM]		
<input type="button" value="Save"/>			
Print Receipt			
Close			
Main Menu			



Nevada
Environmental Protection

MAR 06 2012

BAPC/BAQP

Newmont Mining Corporation
1655 Mountain City Highway
Elko, Nevada 89801-2800
Phone 775.778.4000
Facsimile 775.778.4757
www.newmont.com

March 5, 2012

RECEIVED

MAR 06 2012

ENVIRONMENTAL PROTECTION

UPS NEXT DAY
UPS TRACKING NO. -1Z 874 063 22 1005 3404

Mr. Jeff Kinder
Nevada Division of Environmental Protection
Bureau of Air Pollution Control
901 South Stewart Street, Suite 4001
Carson City, Nevada 89701-5249

**RE: Class I Minor Revision, System 95 - Met Lab Bucking Room
Gold Quarry Operations
Permit No. AP1041-0793**

Dear Mr. Kinder:

Newmont Mining Corporation (Newmont) hereby submits one (1) copy of the Operating Permit Revision Application for the Gold Quarry Operations Area Class I Operating Permit No. AP1041-0793.

An electronic funds transfer in the amount of \$5000.00 was submitted to NDEP-BAPC on March 2, 2012 (confirmation #12030132572837). The modification to Gold Quarry Operations Area consists of the addition System 95 – Met Lab Bucking Room.

Should you have any questions, or require additional information, please contact me at 775-778-2741.

Sincerely,

Carol Adams
Manager
Environmental Permitting

Enclosure

ec: B. Arthur
S. Crandall
P. Pettit



Nevada
Environmental Protection

MAR 27 2012

BAPC/BAQP

March 26, 2012

Newmont Mining Corporation
1655 Mountain City Highway
Elko, Nevada 89801-2800
Phone 775.778.4000
Facsimile 775.778.4757
www.newmont.com

RECEIVED

MAR 27 2012

ENVIRONMENTAL PROTECTION

UPS NEXT DAY
UPS TRACKING NO. -1Z 874 063 22 1005 3431

Mr. Jeff Kinder
Nevada Division of Environmental Protection
Bureau of Air Pollution Control
901 South Stewart Street, Suite 4001
Carson City, Nevada 89701-5249

RE: Response to Additional Technical Information Request
Class I Minor Revision, Met Lab Baghouse
Gold Quarry Operations, Permit No. AP1041-0793

Dear Mr. Kinder:

This letter is in response to your letter dated March 19, 2012 requesting additional technical information in regards to the Newmont Mining Corporation (Newmont) Gold Quarry Operations Area Metallurgical Laboratory Bucking Room Baghouse Revision Application that was received by the Nevada Division of Environmental Protection – Bureau of Air Pollution Control (NDEP-BAPC) on March 1, 2012.

- Item #1 – General Company Information
The Met Lab Bucking Room Baghouse is by definition not a major modification as demonstrated by the emissions calculations provided in Appendix 6 – Detailed Emissions Calculations. Those calculations demonstrate that the emissions increase resulting from the baghouse is less than the applicable PSD significance levels.

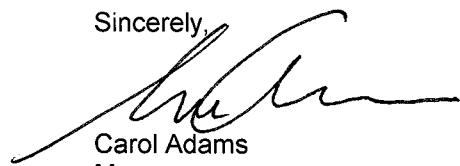
Newmont believes that Section 15(c)(1)&(2) of the application form are incorrect in that emissions information from the entire stationary source is being asked for rather than for the emissions unit being added. EPA's PSD regulations at 40 CFR § 52.21(b)(2) make clear that the focus is on the particular physical change or change in the method of operation. For this revision, that is the addition of the baghouse. Because this is new equipment, the only consideration is whether the emissions from this unit are below the PSD significance levels set forth at 40 CFR § 52.21(b)(23); the previously provided emission calculations demonstrate they are.

Moreover, to determine whether a modification is major is a two-step process. First, it must be determined whether the modification itself is significant. If the emissions for the modification are less than the pollutant significance thresholds, then the analysis is complete. However, if the modification results in an increase equal to or above the significance threshold, then the facility has the option of going through a netting exercise to show that the net emissions increase is less than the significance level. This is the second step in the process. Netting is the process described in Section 15(c)(3) & (4), and is not required for this modification since the modification alone is not significant.

- Item #2 – Appendix 1 – Emission Unit Application Forms
Weekly differential pressure readings are a monitoring parameter and are located in Section 5. The form has been updated to verify that the differential pressure reading is within the range established by the manufacturer. This language is consistent throughout the permit on systems that are controlled by a baghouse.
- Item #3 – Appendix 10 – Operating Permit Template
The Operating Permit Template has been revised to reflect the change from Item #2.
- Item #4 – Electronic Copy of the application not provided
The Class I-B Operating Permit Application Packet for Minor Revision of a Class I Operating Permit does not require an electronic copy of the application be submitted. However, an electronic copy of the application package was sent to you via electronic mail on March 5, 2012 by Ms. Maxine Miers of Newmont.

Should you have any questions, or require additional information, please contact me at 775-778-2741. I look forward to working with you on this minor modification application.

Sincerely,



Carol Adams
Manager
Environmental Compliance

Enclosure

ec: B. Arthur
 S. Crandall
 P. Pettit

MAR 06 2012

BAPC/BAQP

**Application
for
Minor Revision
of
Gold Quarry
Class I Air Quality
Operating Permit
AP1041-0793**

Metallurgical Laboratory Bucking Room Baghouse

March 2012

**Prepared by:
Newmont Mining Corporation
1655 Mountain City Highway
Elko, Nevada 89801**

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Abbreviations

AP-42	<u>Compilation of Emission Factors, AP-42, Fifth Edition, Volume 1, Stationary Point and Area Sources</u> – published by the US Environmental Protection Agency
BACT	Best available control technology
BAPC	Bureau of Air Pollution Control
Btu	British thermal unit
CAM	Compliance Assurance Monitoring
CPM	Condensable particulate matter
CFR	Code of Federal Regulations
CO	Carbon monoxide
EPA	U.S. Environmental Protection Agency
gr/dscf	Grains per dry standard cubic foot (68 °F, 1 atmosphere)
HAP	Hazardous air pollutant listed pursuant to Section 112 of the Federal Clean Air Act
HRSG	Heat recovery steam generator
LAER	Lowest achievable emission rate
lb/hp-hr	Pounds per horsepower hour
lb/MMBtu	Pound per million British thermal units
lb/ 10^6 scf	Pounds per million standard cubic feet
MMBtu/hr	Millions of British thermal units per hour
MSDS	Material Safety Data Sheet
NAC	Nevada Administrative Code
NDEP	Nevada Department of Environmental Protection
NESHAP	National Emission Standards for Hazardous Air Pollutants
NSPS	New Source Performance Standards
NO _x	Nitrogen oxides
NOAV	Notice of Alleged Violation
PM	Total particulate matter (includes both filterable particulate matter measured by EPA Method 5 and condensable particulate matter measured by EPA Method 202)
PM ₁₀	Particulate matter with an aerodynamic diameter less than or equal to 10 micrometers (includes both filterable particulate matter measured by EPA Method 201 or 201A and condensable particulate matter measured by EPA Method 202)
PM _{2.5}	Particulate matter with an aerodynamic diameter less than or equal to 2.5 micrometers (includes both filterable particulate matter measured by EPA Method 201 or 201A and condensable particulate matter measured by EPA Method 202)
ppm	Parts per million
ppmv	Parts per million by volume
ppmvd	Parts per million by volume, dry
PSD	Prevention of Significant Deterioration
QIP	Quality Improvement Plan
SO ₂	Sulfur dioxide
T-BACT	Best Available Control Technology for toxic air pollutants
tpy	Tons per year
TWA	Time weighted average
VOC	Volatile organic compound

Appendix A

GENERAL COMPANY INFORMATION

GENERAL COMPANY INFORMATION

All applicants shall complete each item or explain in the space provided why no information is needed. Please specify "N/A" (Not Applicable) if necessary. The application will be returned to the applicant if it is deemed incomplete.

**1. COMPANY NAME AND ADDRESS THAT ARE TO APPEAR ON THE OPERATING PERMIT
[NAC 445B.295.1]:**

Newmont Mining Corporation
(Name)

1655 Mountain City Highway
(Address)

Elko NV 89801
(City) **(State)** **(Zip Code)**

2. Owner's Name and Address [NAC 445B.295.1]:

Newmont Mining Corporation
(Name)

1655 Mountain City Highway
(Address)

Elko NV 89801
(City) **(State)** **(Zip Code)**

3. Source Name and Mailing Address, if different from #1 [NAC 445B.295.1]:

N/A
(Name)

(Address)

(City) _____ (State) _____ (Zip Code) _____

4. Name and Address of Owner's Agent [NAC 445B.295.1]

N/A
(Name)

(Address)

(City) _____ (State) _____ (Zip Code) _____

5. Physical Location of Stationary Source [NAC 445B.295.8]: (if no physical address, describe location, e.g., 4 miles south of I-80 at xx Interchange)

6 miles North of Carlin

Township(s) **Range(s)** **Section(s)**

GENERAL COMPANY INFORMATION (CONTINUED)

6. Plant Manager or Other Appropriate Contact [NAC 445B.295.1]:

<u>Carol Adams</u> (Name)	<u>Manager, Environmental Compliance</u> (Title)	
<u>1655 Mountain City Highway</u> (Address)		
<u>Elko</u> (City)	<u>NV</u> (State)	<u>89801</u> (Zip Code)
<u>775-778-4721</u> (Telephone #)	<u>775-778-4756</u> (FAX #)	<u>carol.adams@newmont.com</u> (E-mail address)

7. Responsible Official Name, Title and Address [NAC 445B.295.1]:

<u>Mike Schaffner</u> (Name)	<u>Manager, Carlin Process Operations</u> (Title)	
<u>1655 Mountain City Highway</u> (Address)		
<u>Elko</u> (City)	<u>NV</u> (State)	<u>89801</u> (Zip Code)
<u>775-778-2266</u> (Telephone #)	<u>775-778-4757</u> (FAX #)	<u>mike.schaffner@newmont.com</u> (E-mail address)

8. If records required under the operating permit will be kept at a location other than the source, specify that location [NAC 445B.295.7].

<u>N/A</u> (Name)		
<hr/>		
<u>(Address)</u>		
<u>(City)</u>	<u>(State)</u>	<u>(Zip Code)</u>

9. This application is submitted for (please check appropriate boxes below):

- This application is for a source subject to PSD requirements (40 CFR § 52.21).
 This application is for a source subject to the following NSPS requirements (40 CFR § 60):
Subpart LL
-
- This application is for a source subject to the following NESHAP requirements (40 CFR § 63):
-
-

GENERAL COMPANY INFORMATION (CONTINUED)

10. The application must contain, if applicable:
 - a. For a proposed minor revision for which there is an increase of greater than 10 tons per year of a regulated air pollutant, include an environmental evaluation as required by NAC 445B.308 to 445B.313, inclusive [NAC 445B.295.8].
 - b. For stationary sources subject to the provisions regarding new source review set forth in 42 USC §§7501 - 7515, inclusive (nonattainment areas), all information required by 42 USC §7503 [NAC 445B.3363.2(b)(3)].

11. Will the construction occur in more than one phase? Yes No

12. If the construction will occur in more than one phase, please provide the projected date of the commencement for each phase of construction:
Phase 1: _____
Phase 2: _____
Phase 3: _____

13. **Compliance Plan/Certification**
 - a. Attach a compliance plan, signed by the responsible official that contains the following with respect to all applicable requirements:
 - (1) A narrative description of the compliance status of the stationary source with respect to all applicable requirements. [NAC 445B.3368.2(h)(1)]
 - (2) A compliance certification by a responsible official stating that the stationary source will comply in a timely manner with any new applicable requirements that become effective during the operating permit term. Include a description of the test methods and the requirements for monitoring, enhanced monitoring, recordkeeping and reporting that will be used to comply with the new applicable requirements, fuel use, the rate of production, raw materials, and operating schedules which are used to determine the compliance status of the stationary source. [NAC 445B.3368.2(h)(2)]
 - (3) If the stationary source is not in compliance with any applicable requirements at the time the operating permit is issued, include a narrative description and a proposed schedule for achieving compliance which includes remedial measures, an enforceable sequence of actions with milestones, and a schedule to submit certified progress reports every six months. This schedule must be at least as stringent as that contained in any consent decree rendered by a federal court, a court of this state, or an administrative order which applies to the stationary source. [NAC 445B.3368.2(h)(3)III]
 - b. A schedule for submission of compliance certifications during the term of the operating permit, to be submitted annually or more frequently to the Bureau of Air Pollution Control. [NAC 445B.3368.2(i)(3)]

A compliance Plan and signed compliance certificate are attached below.

Compliance Plan

This section addresses the required elements of a Title V Compliance Plan, as itemized on the NDEP “Application for Renewal of a Class I Air Quality Operating Permit Operating Permit.” This section includes a statement of the compliance status for the source and certification of that statement by a responsible official of the Company, description of noncompliance and proposed compliance certification schedule. This section also identifies proposed exemptions from federally applicable requirements, test methods for compliance with federally applicable requirements, test methods for compliance with federally applicable requirements and the location of mine records.

Compliance Status

The “source” identified in the General Company Information Section above, is currently in compliance with all federally applicable requirements, as identified in Table 1 (attached).

Compliance Certification Statement

The compliance certification statement, signed by a responsible official of the company, is included in this Operating permit Application for Class I sources in Section 1.0 of this application. By signing the certification, the responsible official states that the source will continue to comply with applicable requirements with which it is in compliance and agrees to comply in a timely manner with any new applicable requirements that may become effective during the term of this operating permit.

Description of Noncompliance and Compliance Schedule

There are no outstanding non-compliance issues. Newmont is not aware of any outstanding reported noncompliance issues other than minor monitoring deviations that have been previously reported to the BAPC. Therefore, no schedule to attain compliance is required.

Schedule of Compliance Certification Reporting

As required by NAC.445B.295 2.(h)(4), a report certifying the compliance status with all applicable federal requirements will be submitted to the NDEP, Bureau of Air Pollution Control, annually.

Proposed Exemptions from Federally Applicable Requirements

Newmont proposes no exemptions from federally applicable requirements.

14. A minor revision may be made to a Class I operating permit if the revision:
- Does not violate any applicable requirement;
 - Does not involve significant changes to the existing requirements for monitoring, reporting or recordkeeping;
 - Does not require or change:
 - A determination of an emission limitation or other standard on a case-by-case basis;
 - A determination of the ambient impact for any temporary source; or
 - A visibility or increment analysis;
 - Does not establish or change a condition of the operating permit for which there is no corresponding underlying applicable requirement and which was requested in order to avoid an applicable requirement, including:
 - A federally enforceable emissions cap; or
 - An alternative emission limitation pursuant to 42 U.S.C. §7412(i)(5);
 - Is not a modification pursuant to any provision of 42 U.S.C. §§7401 to 7515, inclusive; and
 - Does not result in an increase in allowable emissions that exceeds any of the thresholds specified in NAC 445B.3425.1(f).

15. PROCEDURES FOR DEMONSTRATION OF MINOR REVISION AT A MAJOR PSD STATIONARY SOURCE. Respond to the following criteria [NAC 445B.295.8]:

- a. Is the existing facility categorized as a PSD major stationary source (see 40 CFR Part 52.21(b)(1) for definition)?

Yes.

This determination must be based on the potential to emit as determined by the conditions contained in current permit(s). If the existing facility is not a PSD major stationary source, b and c are not required to be completed.

- b. Describe whether a physical change or change in the method of operation is occurring as a result of the proposed revision(s). If a physical change or change in the method of operation is not occurring, c is not required to be completed.

Newmont requests the following changes in this application:

- 1) This revision includes the addition of a baghouse to the Metallurgical Laboratory Bucking Room.

No other emission units will be affected by this change. The following calculations demonstrate this change falls below the PSD significance level for all pollutants and, therefore, is not a major modification:

Pollutant	Calculated Emissions: tons/year (Based on Existing Permit)	Calculated Emissions: tons/year (Based on Proposed Permit)	Emissions Increase: tons/year	PSD Significance Level: tons/year
NOx	244.51	-	-	40
CO	195.96	-	-	100
SO2	221.12	-	-	40
PM10	326.51	331.58	5.07	15
PM2.5*	326.51*	331.58*	5.07*	10
VOC	38.60	-	-	40

See appendix 6 for detailed calculations.

*PM2.5 is a subset of PM10; without NBAPC guidance on how to calculate PM2.5 Newmont will use PM10 as a proxy for these values.

- c. Describe and provide detailed calculations that demonstrate that a major modification as defined in 40 CFR Part 52.21(b)(2) is not occurring. The demonstration must include, at a minimum:
- (1) A summary of actual emissions for the entire stationary source;
 - (2) The proposed new potential to emit for the entire stationary source;
 - (3) A summary of any other contemporaneous emission increases and decreases; and
 - (4) The net emission increase or decrease. This must be less than the PSD significant emission rates defined in 40 CFR Part 52.21(b)(23).

16. **Application Submittal:**

Please remove the cover page, Table of Contents and General Information page and all Attachments of the application packet. Submit the remainder of the application packet as your formal application. This should consist of, at a minimum, the Class I-B Minor Revision Application cover page, the general Company Information, and Appendices 1 through 10.

Appendix 1

EMISSION UNIT APPLICATION FORMS

**(Industrial Process/Combustion Equipment/Storage Silo/
Liquid Storage Tank/ Surface Area Disturbance)**

**INDUSTRIAL PROCESS
APPLICATION FORM
CLASS I-B**

Check here if this is an
alternative operating scenario

Section 1 - Equipment Description

- a. Type of equipment Met Lab Bucking Room – S 2.228 Secondary Crusher (856-CR-110); S 2.229 Secondary Crusher (856-CR-111); S 2.230 Tertiary Crusher (856-CR-115); S 2.231 Ball Mill (856-ML-114)
- b. Standard Industrial Classification (SIC) Code 1041
- c. Manufacturer of equipment Mikro-Pulsaire
- d. Model number N/A Serial number N/A Equip. number System 95
- e. Date equipment manufactured: N/A
- f. Please check one: Temporary (At the same location for less than 12 months)
 Stationary (At the same location for more than 12 months)
- g. For crushers: size output setting, check one: Primary (\exists 4")
 Secondary (< 4" but \exists 1")
 Tertiary (< 1")
- h. Please check if portable: Portable (transportable or movable within the confines of the stationary source)
- i. UTM Coordinates 4514948 meters N; 568637 meters E; Zone 11
(Please specify NAD 27 or NAD 83)
- j. Basic equipment dimensions (feet): L 16 W 23 H 33
(Baghouse)

Section 2 - Design Rate/Operating Parameters

- a. Maximum design capacity (tons per hour) 1.5
- b. Requested operating rate (tons per hour)* _____
- c. Requested operating time: (time of day)* _____ to _____
Hours per day 24 Days per year 365
- d. Batch load or charge weight (tons) (if applicable) N/A
- e. Total hours required to process batch or charge (if applicable) _____
- f. Maximum operating rate (tons per year) 13,140
- g. Requested operating rate (tons per year)* _____
- f. Type of material processed Ore
- g. Minimum moisture content N/A

*Note: Please complete if other than the maximum design capacity (tons per hour and tons per year) and/or the maximum hours of operation (24 hours per day, 8760 hours per year) are being requested. The permit will be limited to these values.

**INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED**

Section 3 - Fuel Usage

(This section only applies to fuel consumed/combusted within the process unit. Fuels consumed/combusted in combustion units are to be listed on the Combustion Equipment Application Form.)

Type of Fuel	Amount Used Per Hour	Heat Content (specify in Btus)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)
Oil- Specify Type(s)					
	gallons				
	gallons				
Gasoline	gallons				
Propane	cubic feet				
Natural Gas	cubic feet				
*Waste Oil	gallons				
Other					

Type of Fuel	Amount Used Per Hour (tons)	Heat Content (specify in Btus)	Ash Content (% by weight)	Sulfur Content (% by weight)	Trace Elements (% by weight)	Percent moisture	Percent volatile matter	Percent fixed carbon
Coal - Specify Type(s)								

If more than one type of fuel is combusted, under this operating scenario please specify primary fuel and percentage on a maximum hourly and annual basis (if fuel blending is the primary fuel, identify percentages of each fuel blended). Attach additional information to this form if necessary.

*Firing of waste oil will require multi metals test to insure fuel is non-hazardous.

**INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED**

Section 4 - Pollution Control Equipment/Exhaust Stack Parameters (this section must be completed)

-Complete for emissions **exhausting through a stack, chimney or vent**: (baghouse, wet scrubber, cyclone, low NO_x burner, no control, etc.)

	Control #1	Control #2
Type of Control (See Note 1)	Baghouse (856-DC-150)	
Pollutant(s) Controlled	PM/PM10	
Manufacturer	Mikro-Pulsaire	
Manufacturer's Guarantee (see Note 2)		
Stack height (feet from ground level)	33	
Stack inside diameter (feet)	2.33	
Temperature (°F) at design capacity	Ambient	
Stack exit velocity (feet per second)		
Gas volume flow rate: Actual cubic feet per minute		
Gas volume flow rate: Dry standard cubic feet per minute	13,500	
Unusual stack charac- teristics (e.g. raincan)		

-Complete for emissions **not** exhausting through a stack, chimney or vent: (water sprays, fogging water sprays, pneumatic fogging system, high moisture ore, no control, etc.)

	Control #1	Control #2
Type of Control (See Note 1)	None	
Pollutant(s) Controlled		
Manufacturer		
Manufacturer's Guarantee (see Note 1)		

Note: Indicate the specific point(s) of emission control application for this emission unit. This must be provided as part of the process flow diagram as required in section 7 of the General Information section of the application form.

Note 1: Specify "uncontrolled" if no pollution control device is installed.

Note 2: Manufacturer's guarantee of control efficiency must be attached to this form if the control efficiency claimed is greater than the control efficiency ratings provided in the Bureau of Air Pollution Control's Emissions Control Technology - Control Efficiency Ratings provided in Attachment 4.

**INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED**

Section 5 - Identify and Describe Compliance Monitoring Devices or Activities (attach additional pages if necessary)

1. Throughput rate of as fed ore on a daily basis.
2. Daily hours of operation.
3. Weekly visible emissions inspection.
4. Weekly differential pressure reading and verify reading is within range established by the manufacturer

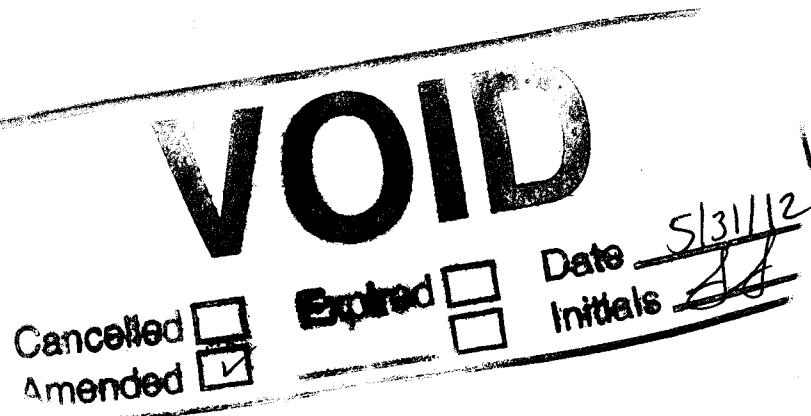
Section 6 - Identify and Describe Work Practice Standards, Etc. (attach additional pages if necessary)

1. At all times, including startup, shutdown, and malfunction, the system will be operated in a manner consistent with good air pollution control measures.
2. Annual check of all bags.

**INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED**

Section 5 - Identify and Describe Compliance Monitoring Devices or Activities (attach additional pages if necessary)

1. Throughput rate of as fed ore on a daily basis.
2. Daily hours of operation.
3. Weekly visible emissions inspection.
4. Weekly differential pressure reading



Section 6 - Identify and Describe Work Practice Standards, Etc. (attach additional pages if necessary)

1. At all times, including startup, shutdown, and malfunction, the system will be operated in a manner consistent with good air pollution control measures.
2. Annual check of all bags.

**INDUSTRIAL PROCESS
APPLICATION FORM
CONTINUED**

Section 7 - Requested Emission Limits

*Note: Alternative emissions limitations (e.g., lb/MMBtu, ppm, grains/dscf) may be requested by the applicant. If alternative emissions limitations are requested, please clearly describe the units in column 2 of Section 5 above.

¹A list of Hazardous Air Pollutants is contained in Attachment 4.

²Other Regulated Pollutants include any Class I or Class II substance subject to a standard adopted pursuant to 42 U.S.C. SS 7671-8671q, inclusive.

SECTION 8

EMISSION UNIT SPECIFIC APPLICABLE REQUIREMENTS

SECTION 8
EMISSION UNIT SPECIFIC
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exempt	Test Methods and/or Monitoring	Compliance Status												
<p>NAC 445B.2203 (State Only Requirement)</p> <p>Emissions of Particulate Matter - Fuel Burning Equipment</p> <p>1. Source may not cause or permit the emission of PM₁₀ resulting from the combustion of fuel in fuel-burning equipment in excess of the quantity set forth in the following formulas:</p> <ul style="list-style-type: none"> a. For input of heat equal to or greater than 4 million Btu's per hour, but less than or equal to 10 million Btu's per hour, the allowable emission is 0.6 of a pound per million Btu's of input of heat. b. For input of heat greater than 10 million Btu's per hour, but less than 4,000 million Btu's per hour, the allowable emissions must be calculated using the following equation: $Y = 1.02X^{-0.231}$ c. For input of heat equal to or greater than 4,000 million Btu's per hour, the emission must be calculated using the following equation: $Y = 17.0X^{-0.588}$ <p>2. For the purposes of paragraphs b and c of subsection 1:</p> <ul style="list-style-type: none"> a. "X" means the operating rate in million Btu's per hour. b. "Y" means the allowable rate of emission in pounds per million Btu's. 	N/A	N/A	Compliant												
<p>SIP 445.731(1)(a) - (Federally Enforceable SIP Requirement)</p> <p>Particulate Matter - Fuel Burning Equipment</p>	<p>Source shall not cause, suffer, allow or permit the emission of particulate matter resulting from the combustion of fuel in excess of the quantity set forth in the following table:</p> <table border="1" data-bbox="819 1139 1037 1838"> <thead> <tr> <th data-bbox="819 1139 886 1838">Heat input in millions of</th> <th data-bbox="886 1139 1037 1838">Maximum allowable emission of particulate matter in pounds per hour per million</th> </tr> </thead> <tbody> <tr> <td data-bbox="920 1139 953 1838">Up to and including 10</td> <td data-bbox="953 1139 987 1838">0.600</td> </tr> <tr> <td data-bbox="953 1139 987 1838">100</td> <td data-bbox="987 1139 1020 1838">0.352</td> </tr> <tr> <td data-bbox="1020 1139 1054 1838">1,000</td> <td data-bbox="1054 1139 1087 1838">0.206</td> </tr> <tr> <td data-bbox="1087 1139 1121 1838">10,000</td> <td data-bbox="1121 1139 1155 1838">0.091</td> </tr> <tr> <td data-bbox="1155 1139 1188 1838">100,000</td> <td data-bbox="1188 1139 1222 1838">0.025</td> </tr> </tbody> </table>	Heat input in millions of	Maximum allowable emission of particulate matter in pounds per hour per million	Up to and including 10	0.600	100	0.352	1,000	0.206	10,000	0.091	100,000	0.025	N/A	Compliant
Heat input in millions of	Maximum allowable emission of particulate matter in pounds per hour per million														
Up to and including 10	0.600														
100	0.352														
1,000	0.206														
10,000	0.091														
100,000	0.025														
<p>SIP 445.731(1)(b) - (Federally Enforceable SIP Requirement)</p> <p>Particulate Matter - Fuel Burning Equipment</p>	<p>For heat inputs greater than 10 but less than 4,000 million Btu's per hour, the allowable emissions shall be calculated by using the following equation: $Y = 1.02X^{-0.231}$</p> <p>Where "X" = maximum equipment capacity rate in million Btu's per hour. "Y" = allowable rate of emission in pounds per million Btu's.</p>	N/A	Compliant												

SECTION 8
EMISSION UNIT SPECIFIC
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
<p>SIP 445.7311(c) - (Federally Enforceable SIP Requirement) Particulate Matter - Fuel Burning Equipment</p> <p>For heat inputs equal to or greater than 4,000 million Btu's per hour, the emissions shall be calculated by using the following equation:</p> $Y = 17.0X^{-0.568}$ <p>where "X" = maximum equipment capacity rate in million Btu's per hour. "Y" = allowable rate of emission in pounds per million Btu's.</p>	N/A	N/A	Compliant
<p>SIP 445.7313 - (Federally Enforceable SIP Requirement) Particulate Matter - Fuel Burning Equipment</p> <p>Air conditioning equipment or fuel burning equipment having a rating of less than one million kilogram-calories (4 million Btu's) per hour shall be exempted from provisions of this section.</p>	N/A	N/A	Compliant
<p>NAC 445B.22033, 445B.22027 (State Only Requirement) Emissions of Particulate Matter - Sources Not Otherwise Limited</p>	<p>1. Owners or operators of stationary sources not otherwise included in NAC 445B.22027 to 445B.22037, inclusive, shall not cause or permit PM₁₀ to be discharged from any emission unit into the atmosphere in excess of the allowable emission determined by the use of the formula contained in subsection 2 or 3.</p> <p>2. When the maximum allowable throughput is less than 30 tons per hour, the maximum allowable weight discharge per hour must be determined by using the following equation: $E = 4.10P^{0.67}$</p> <p>3. When the maximum allowable throughput equals or exceeds 30 tons per hour, the maximum allowable weight discharge per hour must be determined by using the following equation: $E = 55P^{0.11} - 40$</p> <p>4. For the purposes of subsections 2 and 3:</p> <p>(a) "E" means the maximum rate of emission in pounds per hour. (b) "P" means the maximum allowable throughput in tons per hour.</p>	N/A	Compliant
<p>SIP 445.732 - (Federally Enforceable SIP Requirement) Particulate Matter - Industrial Sources</p>	<p>Sources not otherwise included in these regulations (SIP) shall not cause, suffer, allow, or permit particulate matter to be discharged from any single source into the atmosphere in excess of the allowable emission shown in the following table. When the process weight falls between two values in the table, the maximum weight discharged per hour shall be determined by the use of the formulas contained in this section.</p>	N/A	Compliant
<p>SIP 445.732(2) - When the process weight rate is less than 30,000 kilograms (60,000 pounds) per hour, the maximum allowable weight discharged per hour will be determined by using the following equation:</p>	$E = 0.0193P^{0.67} (4.10P^{0.67})$	<p>"E" = Maximum rate of emission in kilograms (pounds) per hour. "P" = Process weight rate in kilograms (tons) per hour.</p>	

SECTION 8
EMISSION UNIT SPECIFIC
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
<p>SIP 445.732 (3) - <i>(Federally Enforceable SIP Requirement)</i> Particulate Matter - Industrial Sources When the process weight rate equals or exceeds 30,000 kilograms (60,000 pounds) per hour the maximum allowable discharge per hour will be determined by using the following equation: $E = 11.78P^{0.11} \cdot 18.14 \cdot (55P^{0.11} - 40)$ "E" = Maximum rate of emission in kilograms (pounds) per hour. "P" = Process weight rate in kilograms (tons) per hour.</p>	N/A	N/A	Compliant
<p>NAC 445B.2204, 445B.22043, 445B.22047 <i>(State Only Requirement)</i> Sulfur Emissions - Fuel Burning Equipment 1. Source may not cause or permit the emission of compounds of sulfur caused by the combustion of fuel in fuel-burning equipment in excess of the quantity calculated by the use of the formula in subsection 2 or 3. 2. Where an emission unit has a total input of heat of less than 250 million Btu's per hour the allowable emission must be calculated by the use of the following equation: $Y = 0.7X$ 3. Where an emission unit has a total input of heat equal to or greater than 250 million Btu's per hour, the allowable emission of sulfur must be calculated by the use of the following equation: Liquid fuel, $Y = 0.4X$ Solid Fuel, $Y = 0.6X$ Combination, $Y = (L(0.4) - S(0.6))/(L + S)$</p>	N/A	N/A	Compliant
<p>4. For the purposes of subsections 2 and 3: (a) "X" means the operating input of heat in millions of Btu's per hour. (b) "Y" means the allowable rate of emission of sulfur in pounds per hour. 5. For the purposes of subsection 3: (a) "L" means the percentage of total input of heat derived from liquid fuel. (b) "S" means the percentage of total heat derived from solid fuel.</p>	N/A	N/A	Compliant
<p>SIP Article 8.1 and 8.2 <i>(Federally Enforceable SIP Requirement)</i> Sulfur Emissions - Fuel Burning Equipment 8.2.1.1 - Where a source located on contiguous property has a total heat input of less than 63 million kg-cal (250 million Btu's) per hour the following allowable emission shall be calculated by the use of the following equation: $Y = 1.26X (Y = 0.7X)$ "X" = Operating heat input in millions of kg-cal (Btu's) per hour. "Y" = Allowable rate of sulfur emission in kg (pounds) per hour.</p>	N/A	N/A	Compliant

SECTION 8
EMISSION UNIT SPECIFIC
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
<p>SIP Article 8.2.1.2 - Where a source located on contiguous property has a total heat input of equal to or greater than 63 million kg-cal (250 million Btu's) per hour, the allowable sulfur emission shall be calculated by the use of the following equations:</p> $\text{Liquid Fuel} \quad Y = 0.7X (Y = 0.4X)$ $\text{Solid Fuels} \quad Y = 1.1X (Y = 0.6X)$ $\text{Combination Fuel} \quad Y = \frac{L(0.7) + S(1.1)}{L + S}$ <p>"X" = Operating input in millions of kg-cal (Btu's) per hour. "Y" = Allowable rate of sulfur emissions in kg (pounds) per hour. "L" = Percentage of total heat input derived from liquid fuel. "S" = Percentage of total heat input derived from solid fuel.</p> <p>8.2.2 - For purposes of Article 8, "sulfur emission" means the sulfur portion of the sulfur compounds emitted.</p>	N/A	N/A	Compliant
<p>NAC 445B.2204, 445B.2205 (<i>State Only Requirement</i>)</p> <p>Other Processes Which Emit Sulfur</p> <ol style="list-style-type: none"> Source may not cause or permit the emission of sulfur compounds where the sulfur originates in the material being processed, excluding hydrogen sulfide and sulfur from all solid, liquid, or gaseous fuel, in excess of the quantity determined by the following equation: $E = 0.292P^{0.904}$ For the purposes of subsection 1: <ol style="list-style-type: none"> "E" means the allowable sulfur emission in pounds per hour. "P" means the total feed sulfur, excluding hydrogen sulfide, in pounds per hour. 	N/A	N/A	Compliant
<p>SIP 445.746 - (<i>Federally Enforceable SIP Requirement</i>)</p> <p>Other Sulfur Emitting Processes</p> <p>SIP 445.746(1) - Source shall not cause, suffer, allow or permit the emission of sulfur compounds where the sulfur originates in the material being processed (excluding sulfur from solid, liquid, or gaseous fuel), in excess of the quantity determined by the following equation: $E = 0.271P^{0.904} (0.292P^{0.904})$</p> <p>When $\square E \square$ is equal to or greater than 5 kilograms (10 pounds) per hour.</p> <p>Where: "E" is the allowable sulfur emission in kilograms (pounds) per hour, "P" is the total feed sulfur in kilograms (pounds) per hour. SIP 445.746(1) - When "E" is less than 5 kilograms (10 pounds) per hour, the gas stream concentration shall not exceed 1,000 ppm by volume.</p>	N/A	N/A	Compliant
<p>SIP 445.746 - (<i>Federally Enforceable SIP Requirement</i>)</p> <p>Other Sulfur Emitting Processes</p> <p>SIP 445.746(3) - When sulfur emissions are due to sulfur contributions from both the fuel and the material being</p>	N/A	N/A	Compliant

SECTION 8
EMISSION UNIT SPECIFIC
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
<p>processed, the allowable emissions shall be the sum of those allowed by the provisions of this section.</p> <p>NAC 445B.22017 (State Only Requirement)</p> <p>Maximum Opacity of Emissions</p> <p>Except as otherwise provided in this section and NAC 445B.2202 and 445B.22023, no owner or operator may cause or permit the discharge into the atmosphere from any emission unit which is of an opacity equal to or greater than 20 percent. Opacity must be determined by one of the following methods:</p> <p>(a) If opacity is determined by a visual measurement, it must be determined as set forth in Reference Method 9 in Appendix A. of 40 C.F.R. Part 60.</p> <p>(b) If a source uses a continuous monitoring system for the measurement of opacity, the data must be reduced to 6-minute averages as set forth in 40 C.F.R. §80.13(h).</p> <p>2. The provisions of this section and NAC 445B.2202 and 445B.22023 do not apply to that part of the opacity that consists of uncombined water. The burden of proof to establish the application of this exemption is upon the person seeking to come within the exemption.</p>	<p>N/A</p>	<p>N/A</p>	<p>Compliant</p>
<p>SIP 445.721 (Federally Enforceable SIP Requirement)</p> <p>Visible Emissions from Stationary Sources</p> <p>These regulations (SIP) shall not apply if the presence of uncombined water is the only reason for the failure of an emission to comply with these regulations. The burden of proof to establish the application of this exemption shall be upon the person seeking to come within this exemption.</p>	<p>N/A</p>	<p>N/A</p>	<p>Compliant</p>

**SURFACE AREA DISTURBANCE
APPLICATION FORM
CLASS I OPERATING PERMIT**

1. Project Name N/A (no new surface disturbance, area already covered under AP 1041-0793)

2. Surface Area Disturbance Location:

Overall disturbance location description:

Township _____; Range _____; Section _____;

3. Indicate the total number of acres to be disturbed for the project N/A

4. Nevada Administrative Code 445B.22037 requires fugitive dust to be controlled (regardless of the size or amount of acreage disturbed), and requires an ongoing program, using best practical methods, to prevent particulate matter from becoming airborne. All activities which have the potential to adversely affect the local air quality must implement all appropriate measures to limit controllable emissions. Appropriate measures for dust control may consist of a phased approach to acreage disturbance rather than disturbing the entire area all at once; using wet suppression through such application methods as water trucks or water sprays systems to control wind blown dust; the application of soil binding agents or chemical surfactant to roadways and areas of disturbed soil; as well as the use of wind-break or wind-limiting fencing designed to limit wind erosion of soils.
5. Please include a dust control plan in Appendix 8 if the total number of acres to be disturbed in number 3 above equals or exceeds 20 acres. The dust control measures discussed above should be considered in the preparation of the required dust control plan. Two documents entitled "SAD Dust Control Plan Preparation Guidelines" and "SAD Fugitive Dust Control Plan" can be downloaded at www.ndep.nv.gov/bapc under Downloads. The acceptance of the dust control plan by the Bureau of Air Pollution Control does not limit the permit holder's need to control fugitive dust from the disturbance and its related activities, nor from putting into effect an ongoing program for using the best practical methods of dust control.

Appendix 2

IN SIGNIFICANT ACTIVITY INFORMATION FORM

Section 1 - List All Emission Units that are Insignificant Activities Pursuant to NAC 445B.288.2(a) through (h) (see Attachment 2 for regulation).

Emission Unit	Exemption Regulation (Example - NAC 445B.288.2(b))	Reason Exemption Applies
No insignificant activities pursuant to NAC 445B.288.2(a) are associated with the project		

Section 2 - List All Emission Units Proposed as Insignificant Activities Pursuant to List Approved by the Director (see Attachment 1 - List of Approved Insignificant Activities)

Emission Unit	Reason Exemption Applies
No director approved insignificant activities are associated with the project.	

Section 3 - List All Emission Units Proposed as Insignificant Activities and Not Otherwise Listed in Section 1 or Section 2 (NAC 445B.288.4). Proposed insignificant activities from this Section must be submitted, under separate cover, to the Director for his approval. The submittal must include a sufficient description of the emission unit(s), all emissions calculations, and references.

Emission Unit
None are proposed at this time.

Section 4 -Emissions Calculations - Insignificant Emission Units/Activities

Emissions calculations for each insignificant activity listed in Sections 1 through 3 above must be provided and included in Appendix 4. Emissions calculations must be based on the maximum design throughput, maximum design production rate or maximum design heat input rate value of the emission unit or activity. No consideration for emissions reduction from pollution controls or limits on the hours of operation or other operational constraints may be allowed unless otherwise approved by the Director or as indicated in NAC 445B.288.3 or on the list provided in Attachment 1.

Appendix 3

FACILITY-WIDE APPLICABLE REQUIREMENTS

TABLE 1
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
Nevada Revised Statute (NRS) 445B.470 (<u>State Only Requirement</u>) <u>Prohibited Acts</u> Source shall not knowingly: 1. Violate any applicable provision, the terms or conditions of any permit or any provision for the filing of information; 2. Fail to pay any fee; 3. Falsify any material statement, representation or certification in any notice or report; or 4. Render inaccurate any monitoring device or method, required pursuant to the provisions of NRS 445B.100 to 445B.450, inclusive, or 445B.470 to 445B.640, inclusive, or any regulation adopted pursuant to those provisions.	N/A	N/A	Compliant
NAC 445B.22013 (<u>State Only Requirement</u>) <u>Prohibited Discharge</u> Source shall not cause or permit the discharge into the atmosphere from any stationary source of any hazardous air pollutant or toxic regulated air pollutant that threatens the health and safety of the general public, as determined by the director.	N/A	N/A	Compliant
NAC 445B.225 (<u>State Only Requirement</u>) <u>Prohibited Conduct: Concealment of Emissions</u> Source shall not install, construct, or use any device which conceals any emission without reducing the total release of regulated air pollutants to the atmosphere.	N/A	N/A	Compliant
State Implementation Plan (SIP) Article 2.2 (<u>Federally Enforceable State Implementation Plan (SIP Requirement)</u>) <u>Circumvention</u> 2.2.1 - Except for the sole purpose of reducing the odor of an emission, Source shall not install, construct, or use any device which conceals any emission without resulting in a reduction in the total release of air contaminants to the atmosphere.	N/A	N/A	Compliant
NAC 445B.326.1 (445.7-133.1) <u>Federally Enforceable Part 70 Program Assertion of Emergency as Affirmative Defense to Action for Noncompliance</u> Source may assert an affirmative defense to an action brought for noncompliance with a technology-based emission limitation contained in the Operating Permit if the holder of the Operating Permit demonstrates through signed, contemporaneous operating logs or other relevant evidence that: a. An emergency occurred as defined in 445B.056 and the holder of the Operating Permit can identify the cause of the emergency; b. The facility was being properly operated at the time of the emergency; c. During the emergency, the holder of the Operating Permit took all reasonable steps to minimize excess emissions; and d. The holder of the Operating Permit submitted notice of the emergency to the director within 2 working days after the emergency. The notice must contain a description of the emergency, any steps taken to mitigate emissions, and any corrective actions taken to restore the normal operation of the	N/A	N/A	Compliant

TABLE 1
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
NAC 445B.315.2.h (445.7112.2.h) <u>Federally Enforceable Part 70 Program</u> Source shall provide the Bureau of Air Quality, within a reasonable time, with any information that the Bureau of Air Quality requests in writing to determine whether cause exists for modifying, revoking and reissuing, reopening and revising or terminating this Operating Permit or to determine compliance with the conditions of this Operating Permit.	N/A	N/A	Compliant
NAC 445B.315.i (445.7145, 445.7112.2.i) <u>Federally Enforceable Part 70 Program</u> Source shall pay fees to the Bureau of Air Quality in accordance with the provisions set forth in NAC 445B.327 and 445B.331.	N/A	N/A	Compliant
NAC 445B.315.2.k (445.7112.2.k) <u>Federally Enforceable Part 70 Program</u> A responsible official of Source shall certify that, based on information and belief formed after reasonable inquiry, the statements made in any document required to be submitted by any condition of an Operating Permit are true, accurate and complete.	N/A	N/A	Compliant
40 CFR 52.21(r)(4) <u>Federally Enforceable PSD Program</u> At such time that Source becomes a major stationary source or major modification solely by virtue of a relaxation in any enforceable limitation which was established after August 7, 1980, on the capacity of the source or modification otherwise to emit a pollutant, such as a restriction on hours of operation, then the requirements of 40 CFR Part 52.21 shall apply to the source or modification as though construction had not yet commenced on the source or modification.□	N/A	N/A	Compliant
(NAC 445B.252) <u>State Only Requirement</u> <u>Testing and Sampling</u> 1. To determine compliance with NAC 445B.001 (445.430) to 445B.395 (445.846), inclusive, before the approval or the continuance of an Operating Permit or similar class of permits, the director may either conduct or order the owner of any stationary source to conduct or have conducted such testing and sampling as the director determines necessary. Testing and sampling or either of them must be conducted and the results submitted to the director within 60 days after achieving the maximum rate of production at which the affected facility will be operated, but not later than 180 days after initial startup of the facility and at such times as may be required by the director. 2. Tests of performance must be conducted and data reduced in accordance with the methods and procedures of the test contained in each applicable subsection of this section unless the director: a. Specifies or approves, in specific cases, the use of a method of reference with minor changes in methodology; b. Approves the use of an equivalent method; c. Approves the use of an alternative method, the results of which he has determined to be adequate for indicating whether a specific stationary source is in compliance; or d. Waives the requirement for tests of performance because the owner or operator of a stationary source has demonstrated by other means to the director's satisfaction that the affected facility is in	Source testing, monitoring, and BMPs in accordance with permit AP1041-0793	Compliant	

TABLE 1
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
<p>compliance with the standard.</p> <p>3. Tests of performance must be conducted under such conditions as the director specifies to the operator of the plant based on representative performance of the affected facility. The owner or operator shall make available to the director such records as may be necessary to determine the conditions of the test of performance. Operations during periods of startup, shutdown, and malfunction must not constitute representative conditions of a test of performance unless otherwise specified in the applicable standard.</p> <p>4. The owner or operator of an affected facility shall give notice to the director 30 days before the test of performance to allow the director to have an observer present. A written testing procedure for the test of performance must be submitted to the director at least 30 days before the test of performance to allow the director to review the proposed testing procedures.</p> <p>5. Each test of performance must consist of at least three separate runs using the applicable method for that test. Each run must be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic means of results of the runs apply. In the event of forced shutdown, failure of an irreplaceable portion of the sampling train, extreme meteorological conditions, or other circumstances with less than three valid samples being obtained, compliance may be determined using the arithmetic mean of the results of the other two runs upon the director's approval.</p> <p>6. All testing and sampling will be performed in accordance with recognized methods as specified by the director.</p> <p>7. The cost of all testing and sampling and the cost of all sampling holes, scaffolding, electric power, and other pertinent allied facilities as may be required and specified in writing by the director must be provided and paid for by the owner of the stationary source.</p> <p>8. All information and analytical results of testing and sampling must be certified as to their truth and accuracy and as to their compliance with all provisions of these regulations, and copies of these results must be provided to the director no later than 60 days after the testing or sampling, or both.</p>		N/A	Compliant
<p>SIP Article 2.5.4 (<i>Federally Enforceable S/P Requirement</i>)</p> <p>Breakdown or upset, determined by the Director to be unavoidable and not the result of careless or marginal operations, shall not be considered a violation of these regulations.</p> <p>SIP Article 2.6 (<i>Federally Enforceable S/P Requirement</i>)</p> <p>Testing and Sampling</p> <p>2.6.1 - To determine compliance with these regulations prior to approval of or prior to the continuance of an operating permit or similar class of permits, the Director may either conduct or order the owner of any source to conduct or have conducted such testing and sampling as the Director determines necessary.</p> <p>2.6.2 - Within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup of such facility and at such other times as may be required by the Director.</p> <p>2.6.3 - Performance tests shall be conducted and data reduced in accordance with the test methods and procedures contained in each applicable subpart unless the Director (1) specifies or approves, in specific cases,</p>	N/A	N/A	Compliant

TABLE 1
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
<p>the use of a reference method with minor changes in methodology, (2) approves the use of an equivalent method, (3) approves the use of an alternative method the results of which he has determined to be adequate for indicating whether a specific source is in compliance, or (4) waives the requirement for performance tests because the owner or operator of a source has demonstrated by other means to the Director's satisfaction that the affected facility is in compliance with the standard.</p> <p>2.6.4 - Performance tests shall be conducted under such conditions as the Director shall specify to the plant operator based on representative performance of the affected facility. The owner or operator shall make available to the Director such records as may be necessary to determine the conditions of the performance tests. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions of performance tests unless otherwise specified in the applicable standard.</p> <p>2.6.5 - The owner or operator of an affected facility shall provide the Director 30 days prior notice of the performance test to afford the Director the opportunity to have an observer present.</p> <p>2.6.6 - Each performance test shall consist of at least two separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic means of results of the runs shall apply. In the event of forced shutdown, failure of an irreplaceable portion of the sampling train, extreme meteorological conditions, or other circumstances with less than two valid samples being obtained, an additional performance test(s) must be conducted.</p> <p>2.6.7 - All testing and sampling will be performed in accordance with recognized methods as specified by the Director.</p> <p>2.6.8 - The costs of all testing and sampling and the cost of all sampling holes, scaffolding, electric power, and other pertinent allied facilities as may be required and specified in writing by the Director shall be provided and paid for by the owner of the source.</p> <p>2.6.9 - All information and analytical results of testing and sampling shall be certified as to their truth and accuracy and as to their compliance with all provisions of these (SIP) regulations and copies of these results shall be provided to both the owner and Director.</p>			
<p>NAC 445B.22067 (<u>State Only Requirement</u>)</p> <p>Open Burning</p> <p>The open burning of any combustible refuse, waste, garbage, oil, or for any salvage operations, except as specifically exempted, is prohibited. Specific exemptions from open burning are described in NAC 445B.22067.2.</p>			
<p>SIP Article 5.1 (<i>Federally Enforceable SIP Requirement</i>)</p> <p>Open Burning</p> <p>The open burning of any combustible refuse, waste, garbage, oil fires, or for any salvage operations, except as specifically exempted, is prohibited. Specific exemptions from open burning are described in SIP Articles 5.2,</p>			

TABLE 1
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
5.2.1, 5.2.2, 5.2.3, 5.2.4 and 5.2.5. NAC 445B:22087 (<i>State Only Requirement</i>) <u>Odors</u> Source may not discharge or cause to be discharged, from any stationary source, any material or regulated air pollutant which is or tends to be offensive to the senses, injurious or detrimental to health and safety, or which in any way interferes with or prevents comfortable enjoyment of life or property.	N/A	Source testing, monitoring, and BMPs in accordance with permit AP1041-0793	Compliant
SIP Article 10 (<i>Federally Enforceable S/P Requirement</i>) <u>Odors</u> 10.1.1 - Source shall not discharge, or cause to be discharged from any source any material or air contaminant which is, or tends to be, offensive to the senses, injurious or detrimental to health and safety, or which in any way interferes with or prevents the comfortable enjoyment of life or property.	N/A	Source testing, monitoring, and BMPs in accordance with permit AP1041-0793	Compliant
NAC 445B:22093 (<i>State Only Requirement</i>) <u>Organic Solvents and Other Volatile Compounds</u> 1. Solvents or other volatile compounds such as paints, acids, alkalies, pesticides, fertilizers, and manure must be processed, stored, used, and transported in such a manner and by such means as to minimize the tendency to evaporate, leak, escape, or be otherwise discharged into the ambient air causing or contributing to air pollution. If methods of control are available and feasible effectively to reduce the contribution to air pollution from evaporation, leakage, or discharge, as determined by the director, the installation and use of such methods, devices, or equipment for control is mandatory. 2. Source may not place, store, or hold in any new reservoir, stationary tank or other container with a capacity equal to or greater than 40,000 gallons any gasoline, petroleum distillate, or other volatile organic compound having a vapor pressure of 1.5 lb/square inch absolute or greater under actual storage conditions unless the tank, reservoir, or other container is a pressure tank maintaining working pressure sufficient at all times to prevent loss of vapor or gas to the atmosphere or is equipped with one of the following devices properly installed, in good working order, and in operation: a. A floating roof which consists of a pontoon type or double-deck roof which rests on the surface of the liquid contents and is equipped with a seal to close the space between the roof eave and tank wall or a vapor balloon or a vapor dome designed in accordance with accepted standards of the petroleum industry. This control equipment is not permitted if the gasoline or petroleum distillate has a vapor pressure of 11 lb/square inch absolute or greater under actual conditions. All gauging and sampling devices for tanks must be gas tight except when gauging or sampling is taking place. b. Other equipment proven to be of equal efficiency for preventing discharge of gases and vapors to the atmosphere. 3. Any tank for the storage of any other petroleum or volatile organic compound which is constructed or extensively remodeled on or after November 7, 1975, must be equipped with a submerged fill pipe or the equivalent, as approved by the director, for control of emissions. 4. All facilities for dock loading of products consisting of petroleum or other volatile organic compounds having a vapor pressure of 1.5 lb/square inch absolute or greater at loading pressure must have facilities for submerged filling by submerged fill pipe or an acceptable equivalent, for the control of emissions.	N/A	Compliant	

TABLE 1
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
SIP Article 9 (<i>Federally Enforceable SIP Requirement</i>) Organic Solvent, other Volatile Compounds 9.1 - Materials such as, but not limited to, solvents or other volatile compounds such as paints, acids, alkalies, pesticides, fertilizers, and manure shall be processed, stored, used, and transported in such a manner and by such means as to minimize the tendency to evaporate, leak, escape, or be otherwise discharged into the ambient air causing or contributing to air pollution; and where control methods are available and feasible effectively to reduce the contribution to air pollution from evaporation, leakage, or discharge, as determined by the Director, the installation and use of such control methods, devices, or equipment shall be mandatory.	N/A	N/A	Compliant
SIP Article 9.2 (<i>Federally Enforceable SIP Requirement</i>) Storage Containers Equal to or Greater than 150 kiloliters (40,000 Gallons) 9.2.1 - Source shall not place, store, or hold in any new reservoir, stationary tank or other container any gasoline, petroleum distillate, or other volatile organic compound having a vapor pressure of 1.055 kilograms per square meter (1.5 lb/square inch absolute) or greater (under actual storage conditions) unless such tank, reservoir, or other container is a pressure tank maintaining working pressure sufficient at all times to prevent vapor or gas loss to the atmosphere or is equipped with one of the following vapor loss control devices (see 9.2.1, 9.2.1.2) properly installed, in good working order, and in operation. 9.2.1.1 - A floating roof which consists of a pontoon type or double-deck roof which rests on the surface of the liquid contents and is equipped with a closure seal to close the space between the roof eave and tank wall; or a vapor balloon or a vapor dome, designed in accordance with accepted standards of the petroleum industry. This control equipment shall not be permitted if the gasoline or petroleum distillate has a vapor pressure of 7.734 kilograms (11 lb/square inch absolute) or greater under actual conditions. All tank gauging and sampling devices shall be gas tight except when gauging or sampling is taking place. 9.2.1.2 - Other equipment proven to be of equal efficiency for preventing discharge of gases and vapors to the atmosphere.	N/A	N/A	Compliant
SIP Article 9.2 (<i>Federally Enforceable SIP Requirement</i>) Storage Containers Equal to or Greater than 150 kiloliters (40,000 Gallons) (Continued) 9.2.2 - Any other petroleum or volatile organic compound storage tank which is constructed or extensively remodeled, on or after the effective date of these regulations, shall be equipped with submerged fill pipe or equivalent, as approved by the Director for control of emissions.	N/A	N/A	Compliant
SIP Article 9.2 (<i>Federally Enforceable SIP Requirement</i>) Storage Containers Equal to or Greater than 150 kiloliters (40,000 Gallons) (Continued) 9.2.3 - All facilities for dock loading of petroleum or volatile organic compound products, having a vapor pressure of 1,055 kilograms per square meter (1.5 pounds per square inch absolute) or greater at loading pressure, shall provide for submerged filling by a submerged fill pipe or acceptable equivalent for the control of emissions	N/A	Fugitive Dust Plan	Compliant
NAC 445B.22037 (<i>State Only Requirement</i>)	N/A		

TABLE 1
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
Fugitive Dust 1. Source may not cause or permit the handling, transporting, or storing of any material in a manner which allows or may allow controllable particulate matter to become airborne. 2. Except as otherwise provided in subsection 4, Source may not cause or permit the construction, repair, demolition, or use of unpaved or untreated areas without first putting into effect an ongoing program using the best practical methods to prevent particulate matter from becoming airborne. As used in this subsection, □best practical methods□ includes, but is not limited to, paving, chemical stabilization, watering, phased construction, and revegetation. 3. Except as provided in subsection 4, Source may not disturb or cover 5 acres or more of land or its topsoil until he has obtained an Operating Permit for surface area disturbance to clear, excavate, or level the land or to deposit any foreign material to fill or cover the land. 4. The provisions of subsections 2 and 3 do not apply to: a. Agricultural activities occurring on agricultural land; or b. Surface disturbances authorized by a permit issued pursuant to NRS 519A.180 which occur on land which is not less than 5 acres or more than 20 acres.			Compliant
SIP Article 7.3 (Federally Enforceable S/P Requirement) Fugitive Dust 7.3.1 - Source shall not cause or permit the handling, transporting, or storing of any material in a manner which allows, or may allow, controllable particulate matter to become airborne.			Compliant
7.3.2 - In areas designated by the Director, Source shall not cause or permit the construction, repair, or demolition work, or the use of unpaved or untreated areas without applying all such measures as may be required by the Director to prevent particulate matter from becoming airborne.			
7.3.3 - Source may not disturb or cover 8 hectares (20 acres) or more of land or its topsoil, except for agricultural land until Source obtains a registration certificate or operating permit for the purpose of clearing, excavating or leveling such land or any foreign material to fill or cover such land.			
NAC 445B.227 (445.664) Federally Enforceable Part 70 Program Facilities Operation Source may not: 1. Operate a stationary source of air pollution unless the control equipment for air pollution which is required by applicable requirements or conditions of this Operating Permit is installed and operating. 2. Disconnect, alter, modify or remove any of the control equipment for air pollution or modify any procedure required by an applicable requirement or condition of this Operating Permit.			Compliant
The following provisions are applicable requirements of this Operating Permit: 1. Source will comply with all applicable provisions of: a. 40 CFR Part 60.1 - 60.19 - Standards of Performance for New Stationary Sources - General Provisions; b. 40 CFR Part 61.01 - 61.19 - National Emission Standards for Hazardous Air Pollutants - General			Compliant

TABLE 1
APPLICABLE REQUIREMENTS, TEST METHODS, AND COMPLIANCE STATUS

Applicable Requirement Citation and Description	Explanation of A Proposed Exemption	Test Methods and/or Monitoring	Compliance Status
<p>Provisions:</p> <ul style="list-style-type: none"> c. 40 CFR Part 61.140 - 61.157 - National Emission Standards for Asbestos; d. 40 CFR Part 63.1 - 63.15 - National Emission Standards for Hazardous Air Pollutants for Source Categories - General Provisions; e. 40 CFR Part 70 - State Operating Permit Program. <p>Source is subject to 40 CFR Part 68 - Chemical Accident Prevention Provisions. Source shall submit a risk management plan (RMP) by June 21, 1999, or other dates specified in 40 CFR 68.10. Source shall certify compliance with these requirements as part of the annual compliance certification as required by 40 CFR Part 70.</p>			
<p>Source will comply with all provisions of 40 CFR Part 82. Persons operating appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156. Equipment used during maintenance, service, repair, or disposal of appliances must meet the standards for recycling and recovery equipment in accordance with 40 CFR 82.158. Persons performing maintenance, service, repair or disposal of appliances must be certified by a certified technician pursuant to 40 CFR 82.161.</p>	N/A	Use of certified Technicians	Compliant
<p><u>Chemical Accident Prevention Provisions</u></p> <p>Source shall:</p> <ol style="list-style-type: none"> 1. Submit a compliance schedule for meeting the requirements of 40 CFR Part 68.215 by the date provided in 40 CFR Part 68.10(a) or; 2. Submit as part of the compliance certification submitted under 40 CFR Part 70.6(c)(5), a certification statement that the source is in compliance with all requirements of 40 CFR Part 68.215, including the registration and submission of the risk management plan. 	N/A	N/A	Compliant
<p>Source is not in compliance with NAC 445B.230 - <input type="checkbox"/> Plan for reduction of emissions. <input type="checkbox"/> In order to achieve compliance Source shall submit a plan for reducing or eliminating emissions associated with the stationary source in accordance with the episode stages of alert, warning, and emergency as contained in the applicable State Implementation Plan for the State of Nevada. The plan must be submitted on or before July 1, 1998.</p>	N/A	N/A	Compliant

Appendix 4

STREAMLINING AND SHIELD ALLOWANCE

N/A

Appendix 5

FACILITY-WIDE POTENTIAL TO EMIT TABLES

TABLE 1

FACILITY-WIDE (STATIONARY SOURCE)
POTENTIAL TO EMIT
POUNDS/HOUR AND TONS/YEAR

Pollutant	Potential to Emit (pounds/hour)	Potential to Emit (tons/year)
Total Particulate Matter (PM)	705.00	513.75
Particulates as PM ₁₀	94.73	331.58
Sulfur Dioxide	80.48	221.12
Carbon Monoxide	62.82	195.96
Oxides of Nitrogen	70.69	244.51
Volatile Organic Compounds	14.02	38.52
Lead	Negligible	Negligible
Hazardous Air Pollutants (Specify Each Pollutant)	Negligible	Negligible
Other Regulated Pollutants (Specify)	Negligible	Negligible

TABLE 2
INSIGNIFICANT ACTIVITIES
POTENTIAL TO EMIT
POUNDS/HOUR AND TONS/YEAR

Appendix 6

DETAILED EMISSIONS CALCULATIONS

**Proposed Particulate Emissions Inventory for Newmont Mining Corporation, Gold Quarry - Permit No. AP1041-0793
PM & PM10 Emissions Calculations**

Proposed Particulate Emissions Inventory for Newmont Mining Corporation, Gold Quarry - Permit No. AP1041-0793
PM & PM10 Emissions Calculations

System #	Permit #	Source #	Source Description	Process Rate		Operating Hours (hr/yr)	Emission Factor		Calculated Emissions (lb/ton)	Calculated Emissions (ton/year)	Emission Factor Reference	
				(ton/hr)	(ton/yr)		TSP (lb/ton)	PM10		TSP	PM10	
14	-0793	System Total	South Area Leach Transfer of Secondary Crushed Ore to Tertiary Stockpile, OR Truck Load-Out Stockpile	-	-	3,850	8,760	0.001913	0.0006670	Water spray	1.04	0.37
		PF-1.023	Shuttle Conveyor (530-CV-03) discharge/transfer to Tertiary Crushing Stockpile, OR	-	-	8,760	0.001913	0.0006670	Water spray	75%	-	-
15	-0793	System Total	South Area Leach Tertiary Crushing Reclaim Transfer System (DC-005)	-	-	3,850	15,000,000	7,884	-	-	1.84	0.64
		S 2.171	(Conveyor (330-AF-01) discharge/transfer to Transfer Conveyor (300-CV-103))	-	-	7,884	-	-	-	75%	-	-
16	-0793	System Total	South Area Leach Tertiary Crushing Reclaim Transfer System (DC-006)	-	-	3,850	15,000,000	7,884	-	-	1.505	0.0219
		S 2.172	(Conveyor (330-CV-05) discharge/transfer to Transfer Conveyor (300-CV-104))	-	-	7,884	-	-	-	0.0600	0.0600	0.2500
17	-0793	System Total	South Area Leach Secondary Crushing Reclaim Transfer System	-	-	3,850	15,000,000	7,884	-	-	1.505	0.0219
		S 2.175	(Conveyor (330-AF-05) discharge/transfer to Transfer Conveyor (200-CV-104))	-	-	7,884	-	-	-	0.0600	0.0600	0.2500
		S 2.176	(Dribble Conveyor (330-CV-06) discharge/transfer to Transfer Conveyor (200-CV-101))	-	-	7,884	-	-	-	0.0600	0.0600	0.2500
18	-0793	System Total	Refractory Leach Project Secondary Screening/Crushing Circuit	-	-	3,850	15,000,000	7,884	-	-	2.614	0.0219
		S 2.177	(Overhead Conveyor (200-CV-001) discharge/transfer to Secondary Screen (200-SC-001))	-	-	7,884	-	-	-	-	-	-
		S 2.178	(Secondary Screen (200-SC-001) discharge/transfer to Secondary Screen (200-SC-002))	-	-	7,884	-	-	-	-	-	-
		S 2.179	(Secondary Screen (200-SC-001) undersize discharge/transfer to Secondary Crusher (200-CR-001))	-	-	7,884	-	-	-	-	-	-
		S 2.180	(Secondary Screen (200-SC-001) oversize discharge/transfer to Secondary Crusher (200-CR-001))	-	-	7,884	-	-	-	-	-	-
		S 2.181	(Secondary Crusher (200-CR-001) discharge/transfer to Collecting Conveyor (200-CV-004))	-	-	7,884	-	-	-	-	-	-
		S 2.182	(Secondary Crusher (200-CR-001) discharge/transfer to Collecting Conveyor (200-CV-004))	-	-	7,884	-	-	-	-	-	-
		S 2.183	(Conveyor (200-CV-03) discharge/transfer to Collecting Conveyor (200-CV-004))	-	-	7,884	-	-	-	-	-	-
		S 2.184	(Conveyor (200-CV-03) discharge/transfer to Conveyor (200-CV-006))	-	-	7,884	-	-	-	-	-	-
		S 2.185	(Conveyor (200-CV-04) discharge/transfer to Conveyor (200-CV-006))	-	-	7,884	-	-	-	-	-	-
19	-0793	System Total	Refractory Leach Project Transfer of Secondary Crushed Ore System	-	-	3,850	15,000,000	7,884	-	-	43,200	0.0219
		S 2.186	(Conveyor (530-CV-02) discharge/transfer to Shuttle Conveyor (530-CV-03))	-	-	7,884	-	-	-	-	-	-
19a	-0793	System Total	(Alternative Operating Scenario) - Refractory Leach Project Transfer of Secondary Crushed Ore System	-	-	3,850	15,000,000	7,884	-	-	3,961	0.0219
		PF-1.052	(Conveyor (530-CV-02) discharge/transfer to Shuttle Conveyor (530-CV-03))	-	-	7,884	-	-	-	-	-	-
20	-0793	System Total	Refractory Leach Project Tertiary Crushing Circuit	-	-	3,850	15,000,000	7,884	-	-	3,961	0.0219
		S 2.187	(Conveyor (330-CV-103) discharge/transfer to Tertiary Screen (300-SC-002))	-	-	7,884	-	-	-	-	-	-
		S 2.188	(Conveyor (330-CV-104) discharge/transfer to Tertiary Screen (300-SC-003))	-	-	7,884	-	-	-	-	-	-
		S 2.189	(Tertiary Screen (300-SC-002))	-	-	7,884	-	-	-	-	-	-
		S 2.190	(Tertiary Screen (300-SC-003))	-	-	7,884	-	-	-	-	-	-
		S 2.191	(Tertiary Screen (300-SC-002) undersize discharge/transfer to Screen Discharge Conveyor (400-CV-107))	-	-	7,884	-	-	-	-	-	-
		S 2.192	(Tertiary Screen (300-SC-002) oversize discharge/transfer to Tertiary Crusher (300-CR-002))	-	-	7,884	-	-	-	-	-	-
		S 2.193	(Tertiary Screen (300-SC-003) oversize discharge/transfer to Tertiary Crusher (300-CR-003))	-	-	7,884	-	-	-	-	-	-
		S 2.194	(Tertiary Crusher (300-CR-002))	-	-	7,884	-	-	-	-	-	-
		S 2.195	(Tertiary Crusher (300-CR-002) discharge/transfer to Collecting Conveyor (400-CV-106))	-	-	7,884	-	-	-	-	-	-
		S 2.196	(Tertiary Crusher (300-CR-003))	-	-	7,884	-	-	-	-	-	-
		S 2.197	(Tertiary Crusher (300-CR-002) discharge/transfer to Collecting Conveyor (400-CV-106))	-	-	7,884	-	-	-	-	-	-
		S 2.198	(Tertiary Crusher (300-CR-003) discharge/transfer to Collecting Conveyor (400-CV-106))	-	-	7,884	-	-	-	-	-	-
		S 2.199	(Screen Discharge Conveyor (400-CV-107) discharge/transfer to Collecting Conveyor (400-CV-106))	-	-	7,884	-	-	-	-	-	-
		S 2.200	(Screen Discharge Conveyor (400-CV-108) discharge/transfer to Collecting Conveyor (400-CV-106))	-	-	7,884	-	-	-	-	-	-
21	-0793	System Total	Refractory Leach Project Crushed Ore Transfers: Collecting Conveyors	-	-	3,850	15,000,000	7,884	-	-	33,669	0.0219
		S 2.201	(Transfer Conveyor (200-CV-006) discharge/transfer to Conveyor (530-CV-02))	-	-	7,884	-	-	-	-	-	-
		S 2.202	(Collecting Conveyor (300-CV-107) discharge/transfer to Overland Conveyor (400-CV-014))	-	-	7,884	-	-	-	-	-	-
		S 2.203	(Collecting Conveyor (400-CV-106) discharge/transfer to Conveyor (530-CV-02))	-	-	7,884	-	-	-	-	-	-
24	-0793	System Total	South Area Leach Truck Loading	-	-	3,850	15,000,000	7,884	-	-	14,000	0.0219
		PF-1.025	(Apron Feeder (330-AF-03) discharge/transfer to Truck Conveyor (330-CV-012))	-	-	4,400	24,000,000	8,760	0.001084	0.000380	0.0477	0.0167
		PF-1.026	(Apron Feeder (330-AF-04) discharge/transfer to Truck Conveyor (330-CV-012))	-	-	4,400	24,000,000	8,760	0.001084	0.000380	0.0477	0.0167
		Partial System Subtotal		-	-	4,400	24,000,000	8,760	0.001084	0.000380	0.10	0.03
		PF-1.027	(Truck Conveyor (330-CV-02) discharge/transfer to Leach Pad Haul Truck)	-	-	4,400	24,000,000	8,760	0.001084	0.000380	0.2385	0.0835
		System Total		-	-	4,400	24,000,000	8,760	0.001084	0.000380	0.33	0.12
26	-0793	S 2.210	Mill 5 Lime Silo - Loading	-	-	120.0	-	7,884	0.00089	0.0049	1.030	0.0107
33	-0793	Mill 6 Primary Crushing Circuit									1.030	0.0107
		PF-1.028	(ROM Ore Discharge/transfer to Primary Crusher Hopper (200-BN-01))	-	-	1,000.00	3,200,000	8,760	-	-	0.0477	0.0167
		PF-1.029	(Hopper (200-BN-01) discharge/transfer to Primary Crusher Hopper (200-BN-01))	-	-	1,000.00	3,200,000	8,760	-	-	0.0477	0.0167
		PF-1.030	(Apron Feeder (200-FE-01) discharge/transfer to Primary Jaw Crusher (200-CR-01))	-	-	1,000.00	3,200,000	8,760	-	-	0.1301	0.0455
		PF-1.031	(Primary Jaw Crusher (200-CR-01) discharge/transfer to Primary Jaw Crusher (200-CR-01))	-	-	1,000.00	3,200,000	8,760	-	-	0.1301	0.0455
		PF-1.032	(Primary Jaw Crusher (200-CR-01) discharge/transfer to Primary Jaw Crusher (200-CR-01))	-	-	1,000.00	3,200,000	8,760	-	-	0.1301	0.0455
		PF-1.033	(Primary Jaw Crusher (200-CR-01) discharge/transfer to Primary Jaw Crusher (200-CR-01))	-	-	1,000.00	3,200,000	8,760	-	-	0.1301	0.0455
		PF-1.043	(Scalping Screen)	-	-	1,000.00	3,200,000	8,760	-	-	0.1301	0.0455
34	-0793	System Total	Mill 6 Secondary Crushing Unit	-	-	1,000.00	3,200,000	8,760	-	-	0.5	0.05

Proposed Particulate Emissions Inventory for Newmont Mining Corporation, Gold Quarry - Permit No. AP1041-0793
PM & PM10 Emissions Calculations

System #	Permit #	Source #	Source Description	Process Rate		Operating Hours (hr/hr)	Emission Factor (lb/ton)	Emission Factor (lb/ton)	Calculated Emissions (ton/year)	Calculated Emissions (ton/year)	Emission Factor Reference	
				(ton/hr)	(ton/hr)		TSP	PM10	Particulate Control Technology	Control Efficiency	Flow Rate (dscfm)	
35	-0793	Mill 6 Radial Stackers	Radial Stackers (200-BM-01) discharge/transfer to Stockpile	PF 1,034		700.00	3,200,000	8,760				
36	-0793	Mill 6 Tertiary Crushing Circuit				700.00	3,200,000	8,760				
S.2.068		Conveyor (200-CV-01) discharge/transfer to High Angle Conveyor (6200-CV-002)				560.00	4,905,600	8,760				
S.2.069		High Angle Conveyor (6200-DC-002) discharge/transfer to Secondary Screen (6200-SC-002)				560.00	4,905,600	8,760				
S.2.070		Secondary Screen (6200-SC-002) discharge/transfer to Product Conveyor (6200-CV-003)				560.00	4,905,600	8,760				
S.2.071		Secondary Screen (6200-SC-002) oversize discharge/transfer to Secondary Crusher (6200-CR-002)				700.00	3,200,000	8,760				
S.2.072		Secondary Crusher (6200-CR-002) discharge/transfer to Product Conveyor (6200-CV-003)				700.00	3,200,000	8,760				
S.2.073		Product Conveyor (6200-CV-003) discharge/transfer to Radial Stackers (200-BM-01)				700.00	3,200,000	8,760				
37	-0793	Mill 6 Lime/Trona Bin Loading				700.00	3,200,000	8,760	0.001084	0.000380	Water spray	
38	-0793	Mill 6 Crushed Ore Transfer				60.00	525,600	8,760	0.0588	0.016	Baghouse (600-DC-001)	
39	-0793	Mill 6 Grinding and Ore Re-circulation Circuit				560.00	4,905,600	8,760				
S.2.084		Feed Conveyor (6300-CV-027) discharge/transfer to Feed Conveyor (6300-CV-028)				560.00	4,905,600	8,760				
S.2.085		Double Rotator (6300-ML-001) discharge/transfer to Double Rotator (6300-ML-001)				560.00	4,905,600	8,760				
S.2.086		Double Rotator (6300-ML-001) discharge/transfer to Air Slide (6300-AS-001)				560.00	4,905,600	8,760				
S.2.087		Air Slide (6300-AS-001) discharge/transfer to Bucket Elevator (6300-BE-001)				560.00	4,905,600	8,760				
S.2.088		Bucket Elevator (6300-BE-001) discharge/transfer to Air Slide (6300-AS-003)				560.00	4,905,600	8,760				
S.2.089		Air Slide (6300-AS-003) discharge/transfer to Dynamic Separator (6300-CS-002)				560.00	4,905,600	8,760				
S.2.090		Dynamic Separator (6300-CS-002) discharge/transfer to Air Slide (6300-AS-025)				560.00	4,905,600	8,760				
S.2.091		Air Slide (6300-AS-025) discharge/transfer to Air Slide (6300-AS-005)				560.00	4,905,600	8,760				
S.2.092		Air Slide (6300-AS-025) discharge/transfer to Air Slide (6300-AS-006)				560.00	4,905,600	8,760				
S.2.093		Air Slide (6300-AS-006) discharge/transfer to Air Slide (6300-AS-050)				560.00	4,905,600	8,760				
S.2.094		Air Slide (6300-AS-050) discharge/transfer to Air Slide (6300-AS-060)				560.00	4,905,600	8,760				
S.2.095		Air Slide (6300-AS-060) discharge/transfer to Double Rotator (6300-ML-001)				560.00	4,905,600	8,760				
S.2.096		Air Slide (6300-AS-060) discharge/transfer to Double Rotator (6300-ML-001)				560.00	4,905,600	8,760				
S.2.097		System Total				-	-	-				
40	-0793	Mill 6 Dynamic Separator Baghouses				560.00	4,905,600	8,760				
S.2.098		Dynamic Separator Product Baghouse (6300-DC-010)				560.00	4,905,600	8,760				
S.2.099		Dynamic Separator Product Baghouse (6300-DC-011)				560.00	4,905,600	8,760				
S.2.100		Dynamic Separator Product Baghouse (6300-DC-012)				560.00	4,905,600	8,760				
S.2.101		Dynamic Separator Product Baghouse (6300-DC-013)				560.00	4,905,600	8,760				
41	-0793	Mill 6 Transfers to Fine Ore Bin and Roaster Day Bins				-	-	-	203,216	-	17.87	
S.2.102		Dynamic Separator Product Baghouse (6300-DC-010) discharge/transfer to Fine Ore Bin (6300-BN-001)				560.00	4,905,600	8,760				
S.2.103		Dynamic Separator Product Baghouse (6300-DC-011) discharge/transfer to Fine Ore Bin (6300-BN-001)				560.00	4,905,600	8,760				
S.2.104		Dynamic Separator Product Baghouse (6300-DC-012) discharge/transfer to Fine Ore Bin (6300-BN-001)				560.00	4,905,600	8,760				
S.2.105		Dynamic Separator Product Baghouse (6300-DC-013) discharge/transfer to Fine Ore Bin (6300-BN-001)				560.00	4,905,600	8,760				
S.2.106		Fine Ore Bin Baghouse (6300-DC-026) discharge/transfer to Fine Ore Bin (6300-BN-001)				560.00	4,905,600	8,760				
S.2.107		Static Baghouse (6300-DC-026) discharge/transfer to Air Slide (6300-AS-008)				560.00	4,905,600	8,760				
S.2.108		Static Baghouse (6300-DC-026) discharge/transfer to Air Slide (6300-AS-007)				560.00	4,905,600	8,760				
S.2.109		Static Baghouse (6300-DC-026) discharge/transfer to Air Slide (6300-AS-007)				560.00	4,905,600	8,760				
S.2.110		Static Baghouse (6300-DC-026) discharge/transfer to Air Slide (6300-AS-007)				560.00	4,905,600	8,760				
S.2.111		Air Slide (6300-AS-008) discharge/transfer to Fine Ore Bin (6300-BN-001)				560.00	4,905,600	8,760				
S.2.112		Air Slide (6300-AS-007) discharge/transfer to Fine Ore Bin (6300-BN-001)				560.00	4,905,600	8,760				
S.2.113		Fine Ore Bin (6300-BN-001) discharge/transfer to Air Slide (6300-AS-009)				560.00	4,905,600	8,760				
S.2.114		Air Slide (6300-AS-021) discharge/transfer to Bucket Elevator (6300-BE-003)				560.00	4,905,600	8,760				
S.2.115		Air Slide (6300-AS-022) discharge/transfer to Bucket Elevator (6300-BE-004)				560.00	4,905,600	8,760				
S.2.116		Bucket Elevator (6300-BE-004) discharge/transfer to Air Slide (6300-AS-023)				560.00	4,905,600	8,760				
S.2.117		Bucket Elevator (6300-BE-004) discharge/transfer to Air Slide (6300-AS-024)				560.00	4,905,600	8,760				
S.2.118		Air Slide (6300-AS-023) discharge/transfer to North Day Bin (6400-BN-003)				560.00	4,905,600	8,760				
S.2.119		Air Slide (6300-AS-024) discharge/transfer to South Day Bin (6900-BE-004)				560.00	4,905,600	8,760				
System Total						-	-	-	-		5,972	
						-	-	-	-		0.2900	1.2900
						-	-	-	-		0.2900	1.2900
						-	-	-	-		G21	

Proposed Particulate Emissions Inventory for Newmont Mining Corporation, Gold Quarry - Permit No. AP1041-0793
PM & PM10 Emissions Calculations

System #	Permit #	Source #	Source Description	Process Rate (ton/hr)		Operating Hours (hr)	Emission Factor (lb/ton) PM10	Calculated Emissions (lb/hr) PM10	Calculated Emissions (ton/year) PM10	Emission Factor Reference
				(ton/hr)	(ton/hr)					
41A	-0793	(Alternative Operating Scenario) Mill 6 Transfers to Fine Ore Bin and Roaster Day Bins								
S 2.102		Dynamic Separator Product Baghouse (6300-DC-010) discharge/transfer to Fine Ore Bin (6300-BN-001)		560.00	4,905.600	500				
S 2.103		Dynamic Separator Product Baghouse (6300-DC-011) discharge/transfer to Fine Ore Bin (6300-BN-001)		560.00	4,905.600	500				
S 2.104		Dynamic Separator Product Baghouse (6300-DC-012) discharge/transfer to Fine Ore Bin (6300-BN-001)		560.00	4,905.600	500				
S 2.105		Dynamic Separator Product Baghouse (6300-DC-013) discharge/transfer to Fine Ore Bin (6300-BN-001)		560.00	4,905.600	500				
S 2.106		Fine Ore Bin Baghouse (6300-DC-026) discharge/transfer to Fine Ore Bin (6300-BN-001)		560.00	4,905.600	500				
S 2.107		Static Baghouse (6300-DC-006) discharge/transfer to Air Slides (6300-AS-008)		560.00	4,905.600	500				
S 2.108		Static Baghouse (6300-DC-007) discharge/transfer to Air Slides (6300-AS-007)		560.00	4,905.600	500				
S 2.109		Static Baghouse (6300-DC-008) discharge/transfer to Air Slides (6300-AS-007)		560.00	4,905.600	500				
S 2.110		Static Baghouse (6300-DC-009) discharge/transfer to Air Slides (6300-AS-007)		560.00	4,905.600	500				
S 2.111		Air Slide (6300-AS-008) discharge/transfer to Fine Ore Bin (6300-BN-001)		560.00	4,905.600	500				
S 2.112		Air Slide (6300-AS-009) discharge/transfer to Air Slides (6300-AS-008)		560.00	4,905.600	500				
S 2.113		Fine Ore Bin (6300-BN-001) discharge/transfer to Air Slides (6300-AS-009)		560.00	4,905.600	500				
S 2.114		Air Slide (6300-AS-021) discharge/transfer to Bucket Elevator (6300-BE-003)		560.00	4,905.600	500				
S 2.115		Air Slide (6300-AS-022) discharge/transfer to Bucket Elevator (6300-BE-004)		560.00	4,905.600	500				
S 2.116		Bucket Elevator (6300-BE-003) discharge/transfer to Air Slides (6300-AS-023)		560.00	4,905.600	500				
S 2.117		Bucket Elevator (6300-BE-004) discharge/transfer to Air Slides (6300-AS-024)		560.00	4,905.600	500				
S 2.118		Air Slide (6300-AS-023) discharge/transfer to North Day Bin (6400-BN-003)		560.00	4,905.600	500				
S 2.119		Air Slide (6300-AS-024) discharge/transfer to South Day Bin (6900-BE-004)		560.00	4,905.600	500				
System Total				-	-	-	-	-	-	G39
Roaster Umbrella Units										
42	-0793	Mill 6 Static Separator (S2.120 - S2.124) (Exhaust Stack - (E6))		2,263.00	1,189.60	8,760	-			
S 2.120		Double Rotator Air Preheater (6300-RO-001)		560.00	4,905.600	8,760				
S 2.121		Static Separator Product Baghouse (6300-DC-006)		560.00	4,905.600	8,760				
S 2.122		Static Separator Product Baghouse (6300-DC-007)		560.00	4,905.600	8,760				
S 2.123		Static Separator Product Baghouse (6300-DC-008)		560.00	4,905.600	8,760				
S 2.124		Static Separator Product Baghouse (6300-DC-009)		560.00	4,905.600	8,760				
System Total				-	-	-	-	-	-	G39
Mill 6 Static Preheater (S2.125 - S2.127) and South CFB Preheater (S2.128 - S2.130) (Exhaust Stack - (E8))				986.19	518.34	8,760	-			
S 2.125		Heater (6400-BU-003)		560.00	4,905.600	8,760				
S 2.126		Double Rotator Air Preheater (6300-RO-001)		560.00	4,905.600	8,760				
S 2.127		Day Bin (6400-BN-003) discharge/transfer to CFB Ore Preheater (6400-PH-001)		560.00	4,905.600	8,760				
S 2.128		Preheater Baghouse (6300-DC-007)		560.00	4,905.600	8,760				
S 2.129		Preheater Baghouse (6300-DC-008)		560.00	4,905.600	8,760				
System Total				-	-	-	-	-	-	G39
North CFB Preheater (S2.131 - S2.142) and South CFB Preheater (S2.143 - S2.154) and Regenerative Thermal Oxidizer (S2.155 - S2.156) (Exhaust Stack - (E14A))				195.00	102.49	8,760	-			
S 2.131		Primary Gas Heater (6400-BU-005)		195.00	102.49	8,760				
S 2.132		Primary Gas Heater (6400-BU-009)		195.00	102.49	8,760				
S 2.133		CFB Ore Preheater (6400-PH-001) discharge/transfer to CFB Roaster (6400-RO-001)		560.00	4,905.600	8,760				
S 2.134		Roaster Seal Device discharge/transfer to Calcine Cooler (6400-CC-001 and 6400-CC-003)		560.00	4,905.600	8,760				
S 2.135		Dust Bin (6400-BN-007) discharge/transfer to CFB Roaster (6400-RO-001)		560.00	4,905.600	8,760				
S 2.136		Calcine Cooler (6400-CC-002 and 6400-CC-003) discharge/transfer to Air Cyclones (6400-CS-011 and 6400-CS-013)		560.00	4,905.600	8,760				
S 2.137		Air Cyclones (6400-CS-011 and 6400-CS-013) discharge/transfer to Screw Conveyors		560.00	4,905.600	8,760				
S 2.138		Screw Conveyor discharge/transfer to Calcine Cooler (6400-CC-001)		560.00	4,905.600	8,760				
S 2.139		Screw Conveyor discharge/transfer to Calcine Cooler (6400-CC-003)		560.00	4,905.600	8,760				
S 2.140		Waste Heat Boiler (6400-WB-001) discharge/transfer to Screw Conveyors		560.00	4,905.600	8,760				
S 2.141		Precipitator (6500-EP-001) discharge/transfer to Screw Conveyors		560.00	4,905.600	8,760				
S 2.142		Screw Conveyor discharge/transfer to Calcine Cooler (6400-CC-001 and 6400-CC-003)		560.00	4,905.600	8,760				
S 2.143		Primary Gas Heater (6400-BU-008)		560.00	4,905.600	8,760				
S 2.144		Primary Gas Heater (6400-BU-008)		560.00	4,905.600	8,760				
S 2.145		CFB Ore Preheater (6400-PH-002) discharge/transfer to CFB Roaster (6400-RO-002)		560.00	4,905.600	8,760				
S 2.146		Roaster Seal Device discharge/transfer to Calcine Cooler (6400-CC-002 and 6400-CC-004)		560.00	4,905.600	8,760				
S 2.147		Dust Bin (6400-BN-008) discharge/transfer to CFB Roaster (6400-RO-002)		560.00	4,905.600	8,760				
S 2.148		Calcine Cooler (6400-CC-002 and 6400-CC-004) discharge/transfer to Air Cyclones (6400-CS-012 and 6400-CS-014)		560.00	4,905.600	8,760				
S 2.149		Air Cyclones (6400-CS-012 and 6400-CS-014) discharge/transfer to Screw Conveyors		560.00	4,905.600	8,760				
S 2.150		Screw Conveyor discharge/transfer to Calcine Cooler (6400-CC-002)		560.00	4,905.600	8,760				
S 2.151		Screw Conveyor discharge/transfer to Calcine Cooler (6400-CC-004)		560.00	4,905.600	8,760				
S 2.152		Waste Heat Boiler (6400-WB-002) discharge/transfer to Screw Conveyors		560.00	4,905.600	8,760				
S 2.153		Precipitator (6500-EP-002) discharge/transfer to Screw Conveyors		560.00	4,905.600	8,760				
S 2.154		Screw Conveyor discharge/transfer to Calcine Cooler (6400-CC-002 and 6400-CC-004)		560.00	4,905.600	8,760				
S 2.155		Thermal Oxidizer Heater (6600-BU-011), Burner #1		66.00	34.69	8,760				
S 2.156		Thermal Oxidizer Heater (6600-BU-011), Burner #2		66.00	34.69	8,760				
North and South CFB Roaster Total				-	-	-	-	-	-	G39
45	-0793	Acid Plant Startup Heater		278.58</						

Proposed Particulate Emissions Inventory for Newmont Mining Corporation, Gold Quarry - Permit No. AP-1041-0793
PM & PM10 Emissions Calculations

System #	Permit #	Source #	Source Description	Process Rate		Operating Hours		Emission Factor (lb/ton)		Calculated Emissions (lb/hr)		Calculated Emissions (ton/year)		Emission Factor Reference	
				(ton/hr)	(ton/yr)	(hr/yr)	TSP	PM10	Particulate Control Technology	Control Efficiency	Flow Rate (dscfm)	Grain Loading (gr/dscf)	TSP	PM10	
48	-0793	System Total	Alternative Operating Scenario - North Calcine Quench (Maintenance Conditions #1)			70.00	500								
		S 2.158A S 2.159A	Calcine Cooler (6400-CC-001) discharge/transfer to Quench Tank (6400-TK-001) Calcine Cooler (6400-CC-003) discharge/transfer to Quench Tank (6400-TK-003)			70.00	500								
		System Total													1.87
49	-0793	System Total	Alternative Operating Scenario - North Calcine Quench (Maintenance Conditions #2)			70.00	500								
		S 2.158B S 2.159B	Calcine Cooler (6400-CC-003) discharge/transfer to Quench Tank (6400-TK-001)			70.00	500								
		System Total													1.87
50	-0793	System Total	Alternative Operating Scenario - North Calcine Quench (Maintenance Conditions #3)			55.00	500								
		S 2.158C S 2.159C	Calcine Cooler (6400-CC-001) discharge/transfer to Quench Tank (6400-TK-001) Calcine Cooler (6400-CC-003) discharge/transfer to Quench Tank (6400-TK-003)			560.00	8,760								
		System Total													
51	-0793	System Total	South Calcine Quench (Normal Operations)			70.00	500								
		S 2.160 S 2.161A S 2.161B	Calcine Cooler (6400-CC-002) discharge/transfer to Quench Tank (6400-TK-002) Calcine Cooler (6400-CC-004) discharge/transfer to Quench Tank (6400-TK-004)			70.00	500								
		System Total													
52	-0793	System Total	Alternative Operating Scenario - South Calcine Quench (Maintenance Conditions #1)			55.00	500								
		S 2.160A S 2.161B	Calcine Cooler (6400-CC-002) discharge/transfer to Quench Tank (6400-TK-002)			560.00	8,760								
		System Total													
53	-0793	System Total	Alternative Operating Scenario - South Calcine Quench (Maintenance Conditions #2)			70.00	500								
		S 2.160B S 2.161B	Calcine Cooler (6400-CC-004) discharge/transfer to Quench Tank (6400-TK-004)			70.00	500								
		System Total													
54	-0793	System Total	Alternative Operating Scenario - South Calcine Quench (Maintenance Conditions #3)			55.00	500								
		S 2.160C S 2.161C	Calcine Cooler (6400-CC-002) discharge/transfer to Quench Tank (6400-TK-002)			55.00	500								
		System Total													
55	-0793	System Total	Mill 6 Lime Storage			60.00	525,600	8,760	0.0568	0.016	Wet Scrubbers (6400-DC-020, 022)				
		S 2.162	Line Bin - Loading (6800-BN-09)								Wet Scrubbers (6400-DC-020, 022)				
		System Total									Wet Scrubbers (6400-DC-020, 022)				
56	-0793	System Total	CFB North Roaster Lime/Soda Ash Storage			60.00	525,600	8,760	0.0568	0.016	Baghouse (6400-DC-019)				
		S 2.163	Bin - Loading (6400-BN-05)								Baghouse (6400-DC-019)				
		System Total									Baghouse (6400-DC-019)				
57	-0793	System Total	CFB North Roaster Lime/Soda Ash Storage			60.00	525,600	8,760	0.0568	0.016	Baghouse (6400-DC-019)				
		S 2.164	Bin - Loading (6400-BN-06)								Baghouse (6400-DC-019)				
		System Total									Baghouse (6400-DC-019)				
58	-0793	System Total	CFB North Roaster Oxygen Preheater			60.00	525,600	8,760	0.0568	0.016	Baghouse (6400-DC-018)				
		S 2.165	Oxygen Preheater (6400-BUJ-007)								Baghouse (6400-DC-018)				
		System Total									Baghouse (6400-DC-018)				
59	-0793	System Total	CFB South Roaster Oxygen Preheater			113.58	59.70	8,760	7.6	7.6	Wet Scrubbers (6400-DC-020, 022)				
		S 2.166	Oxygen Preheater (6400-BUJ-006)								Wet Scrubbers (6400-DC-020, 022)				
		System Total									Wet Scrubbers (6400-DC-020, 022)				
61	-0793	System Total	Gold Quarry Bioleach Project - Silo Loading			1,000.00	1,000,000	8,760	0.000874	0.000306	Maintain moisture @ 7%				
		S 2.169	Line/Cement/Soda Ash Silo - Loading								Maintain moisture @ 7%				
		System Total									Maintain moisture @ 7%				
62	-0793	System Total	Gold Quarry Bioleach Test Project - Silo Loading			60.00	8,760	0.0089	0.0049	0.0049	Baghouse (SAI-DC-002)				
		S 2.170	Line/Cement/Soda Ash Silo - Loading								Baghouse (SAI-DC-002)				
		System Total									Baghouse (SAI-DC-002)				
63	-0793	System Total	Gold Quarry Bioleach Test Project - Silo Discharge			24.00	8,760	0.0051	0.0024	0.0024	Best Operational Practices				
		S 2.171	Line/Cement/Soda Ash Silo - Discharge								Best Operational Practices				
		System Total									Best Operational Practices				
64	-0793	System Total	Gold Quarry Bioleach Test Project - Silo Loading			60.00	8,760	0.0089	0.0049	0.0049	Baghouse (SAI-DC-002)				
		S 2.172	Line/Cement/Soda Ash Silo - Loading								Baghouse (SAI-DC-002)				
		System Total									Baghouse (SAI-DC-002)				
72	-0793	System Total	Carbon Regeneration Kiln #1			24.00	8,760	0.0051	0.0024	0.0024	Best operational practices				
		S 2.056	Carbon Regeneration Kiln (500-DC-014)								Best operational practices				
		System Total									Best operational practices				
73	-0793	System Total	Carbon Regeneration Kiln #2			1.25	10,950.00	8,760	7.6	7.6	Wet Scrubber (2550-DC-03)				
		S 2.058	Carbon Regeneration Kiln (2550-DC-03)								Wet Scrubber (2550-DC-03)				
		System Total									Wet Scrubber (2550-DC-03)				
77	-0793	System Total	Refinery Mercury Retort Circuit			205.86	8,760	7.6	7.6	7.6	Best operational practices				
		S 2.041	Mercury Retort Furnace (500-FC-10)								Best operational practices				
		S 2.042	Mercury Retort Furnace (500-FC-11)								Best operational practices				
		S 2.043	Mercury Retort Furnace (500-FC-12)								Best operational practices				
		S 2.044	Mercury Retort Furnace (500-FC-13)								Best operational practices				
		S 2.045	Mercury Retort Furnace (500-FC-14)								Best operational practices				
		S 2.046	Mercury Retort Furnace (500-FC-15)								Best operational practices				
		System Total									Best operational practices				
78	-0793	System Total	Electric Refinery Induction Furnaces			1.25	10,950.00	8,760	7.6	7.6	Wet Scrubber (2550-DC-03)				
		S 2.047	Electric Induction Furnace (500-FC-16)								Wet Scrubber (2550-DC-03)				
		S 2.048	Electric Induction Furnace (500-FC-17)								Wet Scrubber (2550-DC-03)				
		S 2.049	Electric Induction Furnace (500-FC-05)								Wet Scrubber (2550-DC-03)				
		System Total									Wet Scrubber (2550-DC-03)				
79	-0793	System Total	Integrated Laboratory Crushing System #1			5.0	1,752	8,760	2,200	2,200	Baghouse (858-DC-001)				
		S 2.036	Primary Crusher (858-CR-100)								Baghouse (858-DC-001)				
		S 2.037	Secondary Crusher (858-CR-101)								Baghouse (858-DC-001)				
		System Total									Baghouse (858-DC-001)				
						0.825	7,227.00	8,760	8,760	8,760	Baghouse (858-DC-001)				
											Baghouse (858-DC-001)				
											Baghouse (858-DC-001)				

Proposed Particulate Emissions Inventory for Newmont Mining Corporation, Gold Quarry - Permit No. AP1041-0793
PM & PM10 Emissions Calculations

System #	Permit #	Source #	Source Description	Process Rate		Operating Hours	Emission Factor		Calculated Emissions (lb/hr)	Calculated Emissions (ton/year)	Emission Factor Reference
				(ton/hr)	(ton/hr)		TSP (hrly)	PM10			
80	-0793	Integrated Laboratory Crushing System #2	Primary Crusher (858-CR-86) Secondary Crusher (858-CR-88) Secondary Crusher (858-CR-89)	0.825	7,227.00	8,760	-	-	Baghouse (858-DC-002)	-	G-33
		S 2.037A	Secondary Crusher (858-CR-102)	0.825	7,227.00	8,760	-	-	Baghouse (858-DC-001)	-	
		S 2.037B	Secondary Crusher (858-CR-103)	0.825	7,227.00	8,760	-	-	Baghouse (858-DC-001)	-	
		System Total		-	-	-	-	-	13,000	-	3,6600
81	-0793	Integrated Lab Riffle Splitter	Riffle Splitter (858-LB-76)	0.165	482.00	2,920	-	-	Baghouse (858-DC-003)	-	G-34
		S 2.228		0.165	482.00	2,920	-	-	Baghouse (858-DC-003)	-	
82	-0793	Trim Fuel Storage Tank	Trim Fuel Storage Tank, 50,000 gallons capacity	PF-0.038	Trim Fuel Storage Tank	8,760	-	-	Roof, submerged fill, best operational practices	-	H1
				PF-0.039	Diesel Fuel Storage Tanks	8,760	-	-	Submerged fill, best operational practices	-	
		S 2.039A	Diesel Fuel Storage Tank, 50,000 gallons capacity (830-TK-09)	0.825	7,227.00	8,760	-	-	Submerged fill, best operational practices	-	
		S 2.039B	Diesel Fuel Storage Tank, 50,000 gallons capacity (830-TK-10)	0.825	7,227.00	8,760	-	-	Submerged fill, best operational practices	-	
		System Total		-	-	-	-	-	0.0400	0.02400	3,6600
83	-0793	Diesel Fuel Storage Tanks	Vibratory grizzly and discharge undersize to metal removal conveyor #1	PF-0.041	Diesel Fuel Storage Tank, 50,000 gallons capacity (830-TK-01)	8,760	-	-	Baghouse (MRRB-1)	-	
			Vibratory grizzly discharge to oversize inclined belt feeder	PF-0.041	Diesel Fuel Storage Tank, 50,000 gallons capacity (830-TK-09)	8,760	-	-	Baghouse (MRRB-1)	-	
		S 2.040	Metal removal conveyor #1 and discharge to metal removal conveyor #2	PF-0.042	Diesel Fuel Storage Tank, 50,000 gallons capacity (830-TK-10)	8,760	-	-	Baghouse (MRRB-1)	-	
		S 2.048	Metal removal conveyor #2 and discharge to transfer conveyor #3	PF-0.048	Transfer conveyor #3 and discharge to radial slacker	8,760	-	-	Baghouse (MRRB-1)	-	
		System Total		-	-	-	-	-	0.0000	0.0000	0.0000
84	-0793	Oxygen Plant Regenerative Heater	Oxygen Plant Regenerative Heater	PF-0.048	PF-0.048	8,760	-	-	Best operational practices	-	
85	-0793	Underground Ore Receiving System		PF-0.048	PF-0.048	8,760	-	-	0.0700	0.03700	0.2800
86	-0793	Underground Ore Metal Removal Plant		PF-0.048	PF-0.048	8,760	-	-	0.0700	0.03700	0.2800
		S 2.220	Vibratory grizzly and discharge undersize to metal removal conveyor #1	PF-0.049	PF-0.049	8,760	-	-	Baghouse (MRRB-1)	-	
		S 2.220.1	Metal removal conveyor #1 and discharge to oversize inclined belt feeder	PF-0.050	PF-0.050	8,760	-	-	Baghouse (MRRB-1)	-	
		S 2.221	Metal removal conveyor #2 and discharge to transfer conveyor #3	PF-0.050	PF-0.050	8,760	-	-	Baghouse (MRRB-1)	-	
		S 2.222	Transfer conveyor #3 and discharge to radial slacker	PF-0.050	PF-0.050	8,760	-	-	Baghouse (MRRB-1)	-	
		System Total		-	-	-	-	-	0.0000	0.0000	0.0000
87	-0793	Ore Stockpile Drops	Radial slacker and discharge to undersize stockpile	PF-1.049	PF-1.049	1,000	1,500,000	8,760	0.0019196	0.0006719	B
			Inclined belt feeder and discharge to oversize stockpile	PF-1.050	PF-1.050	1,000	1,500,000	8,760	0.0019196	0.0006719	B
88	-0793	Phoenix Prep Room Laboratory Crusher System		PF-1.053	PF-1.053	1,000	-	-	1.9196	0.6719	1.4397
		System Total		-	-	-	-	-	1.9196	0.6719	1.4397
		S 2.222	Primary Crusher (850-CR-210)	0.25	2,190.00	8,760	-	-	Baghouse (850-DC-350)	-	
		S 2.223	Primary Crusher (850-CR-211)	0.25	2,190.00	8,760	-	-	Baghouse (850-DC-350)	-	
		S 2.224	Secondary Crusher (850-ML-210)	0.25	2,190.00	8,760	-	-	Baghouse (850-DC-350)	-	
		S 2.225	Secondary Crusher (850-ML-211)	0.25	2,190.00	8,760	-	-	Baghouse (850-DC-350)	-	
		S 2.226	Secondary Crusher (850-ML-220)	0.25	2,190.00	8,760	-	-	Baghouse (850-DC-350)	-	
		S 2.227	Secondary Crusher (850-ML-221)	0.25	2,190.00	8,760	-	-	Baghouse (850-DC-350)	-	
		System Total		-	-	-	-	-	0.0000	0.0000	0.0000
89	-0793	Chukar Underground Lime/Cement/Soda Ash Silo	Lime/Cement/Flyash silo, loading	PF-1.053	PF-1.053	60,00	35,100	8,760	0.0089	0.0049	C
			Lime/Cement/Flyash silo discharge to Hopper C-1	PF-1.053	PF-1.053	10,00	35,100	8,760	0.0051	0.0024	C
		System Total		-	-	-	-	-	0.0000	0.0000	0.0000
90	-0793	Chukar Underground Aggregate Loading	Coarse aggregate loading to Hopper C-3	PF-1.054	PF-1.054	60,00	35,100	8,760	0.0069	0.0033	C
				PF-1.054	PF-1.054	27,00	94,900	8,760	0.0069	0.0033	C
91	-0793	Chukar Underground Aggregate Hopper		PF-1.055	PF-1.055	27,00	94,900	8,760	0.0069	0.0033	C
			Hopper C-3 and discharge to mixing hopper C-2 via totally enclosed feed auger	PF-1.055	PF-1.055	87.5%	-	-	0.023	0.011	0.0409
92	-0793	Chukar Underground Lime/Cement/Flyash Hopper		PF-1.056	PF-1.056	10,00	35,100	8,760	0.544	0.134	C
			Lime/Cement/Flyash hopper C-1 and discharge to mixing hopper C-2 via totally enclosed feed auger	PF-1.056	PF-1.056	87.5%	-	-	0.680	0.168	1.1934
93	-0793	Chukar Underground Mixing Hopper		PF-1.057	PF-1.057	10,00	35,100	8,760	0.544	0.134	C
			End enclosure	PF-1.057	PF-1.057	50%	-	-	18,408	5,143	32,3375
94	-0793	Refinery Mercury Retort Circuit	Mixing Hopper C-2 and discharge to truck mining auger	PF-1.057	PF-1.057	37,00	130,000	8,760	0.995	0.278	C
			End enclosure	PF-1.057	PF-1.057	37,00	130,000	8,760	0.995	0.278	C
		System 1 Total		-	-	-	-	-	18,408	5,143	32,3375
95	-0793	Met lab Bucking Room	Mercury Retort Furnace (500-FC-100)	S 2.225	S 2.225	0.11	964	8,760	-	-	K
			Mercury Retort Furnace (500-FC-101)	S 2.226	S 2.226	0.11	964	8,760	-	-	K
			Mercury Retort Furnace (500-FC-102)	S 2.227	S 2.227	0.11	964	8,760	-	-	K
		System Total		-	-	-	-	-	0.0015	0.0015	0.0066
		S 2.228	Secondary Crusher (856-CR-110)	1.5	13,140	8,760	-	-	0.0015	0.0015	0.0066
		S 2.229	Secondary Crusher (856-CR-111)	1.5	13,140	8,760	-	-	0.0015	0.0015	0.0066
		S 2.230	Tertiary Crusher (856-CR-115)	1.5	13,140	8,760	-	-	0.0015	0.0015	0.0066
		S 2.231	Ball Mill (856-ML-114)	1.5	13,140	8,760	-	-	0.0015	0.0015	0.0066
		System Total		-	-	-	-	-	0.005	0.005	0.020
		Total PM and PM10 Emissions		-	-	-	-	-	705.00	94.73	533.75
				-	-	-	-	-	331.58		

**Proposed SO₂, NO_x, CO, & VOC Emissions Inventory for Newmont Mining Corporation, Gold Quarry - Permit No. AP1041-0793
SO₂, NO_x, CO, & VOC Emissions Calculations**

SOUTH AREA PM EMISSION FACTOR CALCULATIONS AND REFERENCES

EMISSION FACTOR REFERENCES		SYSTEM
A	AP-42, Section 11.24, Metallic Metals Processing, Table 11.24-2, June 2006	01, 05, 06, 33
PM - Primary Crushing - (lb/ton)	0.5	
PM10 - Primary Crushing - (lb/ton)	0.05	
PM & PM10 - Control Technology - (%)	99%	Enclosure, water & surfactant
PM & PM10 - Control Technology - (%)	95%	Pneumatic fogging water sprays
PM & PM10 - Control Technology - (%)	95%	Water sprays

B AP-42, Section 13.2.4, Aggregate Handling and Storage Piles, January 1995

$$E = \text{emission factor, (lb/ton)} = k(0.0032)(U(15)^{1.3})((M/2)^{1.4})$$

K = particulate size multiplier (1 for TSP and 0.35 for PM10)

U = mean wind speed in mph (7.10 for open sources, 1.00 for enclosed, 0.25 for underground transfer)

M = moisture content of material in % (4.00 for ore, 6.00 for added moisture, and 7.00 for Biobeach mixers)

See Table

Based on 2004-2009 Met Data

System #	Source Description	Source #	U (mph)	M (%)	PM (lb/hr)	PM10 (lb/hr)	Control Efficiency
02	Conveyor discharge/transfer to Conveyor	PF 1.006	7.10	6.00	0.001084	0.000380	99%
	Conveyor discharge/transfer to Crushed Ore Stockpile	PF 1.007	7.10	6.00	0.001084	0.000380	99%
07	Conveyor discharge/transfer to Conveyor	PF 1.014	7.10	6.00	0.001084	0.000380	99%
08	Conveyor discharge/transfer to Conveyor (Alternative Scenario)	S 2.218	7.10	6.00	0.001084	0.000380	99%
09	Conveyor discharge/transfer to Shuttle Conveyor	PF 1.015	7.10	6.00	0.001084	0.000380	99%
10	Conveyor discharge/transfer to Shuttle Conveyor (Alternative Scenario)	S 2.219	7.10	6.00	0.001084	0.000380	99%
13	Shuttle Conveyor discharge/transfer to Secondary Crushing Stockpile	PF 1.017	7.10	6.00	0.001084	0.000380	75%
	Shuttle Conveyor discharge/transfer to Truck Load-out Stockpile	PF 1.017.1	7.10	6.00	0.001084	0.000380	75%
14	Shuttle Conveyor discharge/transfer to Tertiary Crushing Stockpile	PF 1.023	7.10	4.00	0.001913	0.000670	75%
	Shuttle Conveyor discharge/transfer to Truck Load-out Stockpile	PF 1.023.1	7.10	4.00	0.001913	0.000670	75%
24	Apron Feeder discharge/transfer to Truck Conveyor	PF 1.025	7.10	6.00	0.001084	0.000380	99%
	Apron Feeder discharge/transfer to Truck Conveyor	PF 1.026	7.10	6.00	0.001084	0.000380	99%
	Truck Conveyor discharge/transfer to Leach Pad Haul Truck	PF 1.027	7.10	6.00	0.001084	0.000380	95%
35	Radial Stackers discharge/transfer to Stockpile	PF 1.034	7.10	6.00	0.001084	0.000380	75%
61	Miner	PF 1.035	7.00	7.00	0.000874	0.000306	0%
85	ROM Discharge to vibrating grizzly	PF 1.048	7.10	3.99	0.001920	0.000672	0%
87	Ore Stockpile Drops-to undersize stockpile	PF 1.049	7.10	3.99	0.001920	0.000672	0%
	Ore Stockpile Drops-to oversize stockpile	PF 1.050	7.10	3.99	0.001920	0.000672	0%

C AP-42, Section 11.12, Concrete Batching, Equation 11.12-1, Table 11.12-3, June 2006

PM - Cement supplement unloading to elevated storage silo (pneumatic) - (lb/ton)
PM10 - Cement supplement unloading to elevated storage silo (pneumatic) - (lb/ton)

PM - Truck loading - (lb/ton)

PM10 - Truck loading - (lb/ton)

PM - Weigh hopper loading - (lb/ton)

PM10 - Weigh hopper loading - (lb/ton)

PM - Aggregate Transfer - (lb/ton)

PM10 - Aggregate Transfer - (lb/ton)

PM - Mixer loading (central mix) - (lb/ton)

PM10 - Mixer loading (central mix) - (lb/ton)

PM - Truck loading - (lb/ton)

PM10 - Truck loading - (lb/ton)

PM - Truck loading - (lb/ton)

PM10 - Truck loading - (lb/ton)

PM - Control Technology - (%)

PM10 - Control Technology - (%)

PM & PM10 - Control Technology - (%)

PM & PM10 - Control Technology - (%)

PM & PM10 - Control Technology - (%)

Assume lime and cement are similar in dusting properties

04, 04A, 11, 11A, 12, 12A, 26, 37, 55, 56, 57, 62
63, 64, 65, 89, 90, 91, 92, 93

0.0089	Controlled EF
0.0049	Controlled EF
0.0568	Controlled EF
0.0160	Controlled EF
0.0051	Uncontrolled EF
0.0024	Uncontrolled EF
0.0069	Uncontrolled EF
0.0033	Uncontrolled EF
0.5440	Uncontrolled EF
0.1340	Uncontrolled EF
0.9950	Uncontrolled EF
0.2780	Uncontrolled EF
	Baghouse
87.5%	Enclosure, water spray
50%	Enclosure, water spray
0%	None

D AP-42, Section 14, Natural Gas Combustion, Tables 1.4-1 & 1.4-2, July 1998

See Table

Reference	System #	PM/PM10 (lb/MMscf)	SO2 (lb/MMscf)	Maximum Emission Rate NOx (lb/MMscf)	CO (lb/MMscf)	VOC (lb/MMscf)
D1	45	7.6	9.5696	100	84	5.5
D2	58	7.6	9.5696	100	73.37	5.5
D3	59	7.6	9.5696	100	73.37	5.5
D11	72	7.6	9.5696	100	84	5.5
D12	73	7.6	9.5696	100	84	5.5

F See permit minor revision application dated February 23, 2004 for emission calculations.

PM & PM10 Emissions (lb/hr)

PM & PM10 Emissions (ton/yr)

G Based on Title V Permit Limit (Permit #AP-1041-0793)

Reference	System #	Max Loading Rate PM & PM10 (g/dscm)	PM (lb/hr)	PM10 (lb/hr)	PM (ton/yr)	PM10 (ton/yr)	SO2 (lb/hr)	SO2 (ton/yr)	NOx (lb/hr)	NOx (ton/yr)	CO (lb/hr)	CO (ton/yr)	VOC (lb/hr)	VOC (ton/yr)	Flow Rate (dscfm)
G1	03	0.05	2.67	11.69	—	—	—	—	—	—	—	—	—	—	14280
G4	42	—	281.28	23.31	—	27.4	—	—	31.93	—	—	—	—	—	124782
G5	43	—	281.29	5.54	—	12.91	—	18.11	10.63	—	—	—	—	—	129331
G6	44	—	70.32	3.70	—	39.53	—	13.22	24.18	—	—	—	—	—	9800
G7	15	0.05	—	0.06	0.25	—	—	—	—	—	—	—	—	—	1505
G8	16	0.05	—	0.06	0.25	—	—	—	—	—	—	—	—	—	—
G9	17	0.05	—	0.11	0.44	—	—	—	—	—	—	—	—	—	—
G10	18	0.05	0.92	0.32	3.63	—	—	—	—	—	—	—	—	—	43200
G11	19	0.05	0.10	0.10	0.40	—	—	—	—	—	—	—	—	—	3961
G12	19a	—	7.36	2.58	14.35	5.02	—	—	—	—	—	—	—	—	—
G13	20	0.05	—	0.87	0.87	3.41	—	—	—	—	—	—	—	—	33669
G14	21	0.05	—	0.31	1.24	—	—	—	—	—	—	—	—	—	14000
G15	34	0.05	1.22	5.34	5.34	—	—	—	—	—	—	—	—	—	28000
G16	36	0.05	0.94	0.94	4.12	—	—	—	—	—	—	—	—	—	19065
G18	38	0.05	0.38	0.38	1.66	—	—	—	—	—	—	—	—	—	7708
G19	39	0.05	—	0.88	0.88	3.87	—	—	—	—	—	—	—	—	17916
G20	40	—	17.87	17.87	78.28	—	—	—	—	—	—	—	—	—	203216
G21	41	—	—	0.29	1.29	1.29	—	—	—	—	—	—	—	—	—
G22	46	—	0.75	0.75	3.27	3.27	—	—	—	—	—	—	—	—	—
G23	47	—	0.99	0.99	4.55	4.55	—	—	—	—	—	—	—	—	—
G24	51	—	—	0.99	4.55	4.55	—	—	—	—	—	—	—	—	—
G25	72	—	—	0.52	0.52	2.08	2.08	—	—	—	—	—	—	—	1800
G26	73	—	—	0.52	0.52	2.08	2.08	—	—	—	—	—	—	—	1800
G31	77	—	—	0.39	0.39	1.69	1.69	—	—	—	—	—	—	—	7500
G32	78	—	—	1.22	1.22	1.34	1.34	—	—	—	—	—	—	—	—
G33	79	—	—	0.84	0.84	3.66	3.66	—	—	—	—	—	—	—	—
G34	80	—	—	0.84	0.84	3.66	3.66	—	—	—	—	—	—	—	—
G36	84	—	—	0.07	0.07	0.28	0.28	0.005	0.02	3.74	0.72	3.14	0.05	0.21	—
G37	86	0.05	0.776	0.776	3.39	3.39	—	—	—	—	—	—	—	—	—
G38	88	0.05	0.65	0.65	2.86	2.86	—	—	—	—	—	—	—	—	10000
G39	41A	0.05	0.88	0.88	3.87	3.87	—	—	—	—	—	—	—	—	—
G40	Umbrella	—	—	—	129.54	129.54	—	218.61	—	214.8	—	97.1	—	35.39	—

H Based on Tanks 2 calculation submitted with original Title V Permit Application

Reference	System #	Maximum Emission Rate		
		SO2 (lb/hr)	VOC (lb/hr)	CO (lb/hr)
H1	82	0.126	0.5519	—
H2	83	0.0045	0.0197	—

See Table

See Table

See Table

See Table

- I Emissions based on:
 - 2800 dscfm
 - 13500 dscfm
 - 0.05 g/dscf
 - 0.01 g/m³/dscf
- J Based on manufacturer information.
 - PM & PM10 (lb/hr) 0.0015
 - PM & PM10 (ton/yr) 0.0066
 - PM & PM10 - Control Technology - (%) 99%
- K Emissions based on vendor information.

NOTES:

- 1) Control efficiencies that are not from NDEP-BAPC, Emission Control Technology - Control Efficiency Ratings, have the manufacturer's guarantee on file at BAPC
- 2) D - SO₂ emission factor calculated by NDEP
- 3) D - CO emission factors for Systems 58 & 59 are based on permitted lb/hr limits requested by Newmont on 1/22/93

Appendix 7

EMISSIONS CAP

Please Check if not applicable

Appendix 8

**NARRATIVE
DESCRIPTION**

**PROCESS FLOW
DIAGRAM**

PLOT PLAN

MAP

DUST CONTROL PLAN

Proposed Project Narrative Description

Systems 95

Newmont proposes to duct the Met Lab Bucking Room Baghouse atmosphere. Currently the baghouse is ducted into the Bucking Room for makeup air. The equipment that is ducted to the baghouse consists of three crushers and a ball mill.

Dust Control Plan

The Dust Control Plan was included in the Gold Quarry Operations Area Updated Renewal Application that was submitted in December 2010.

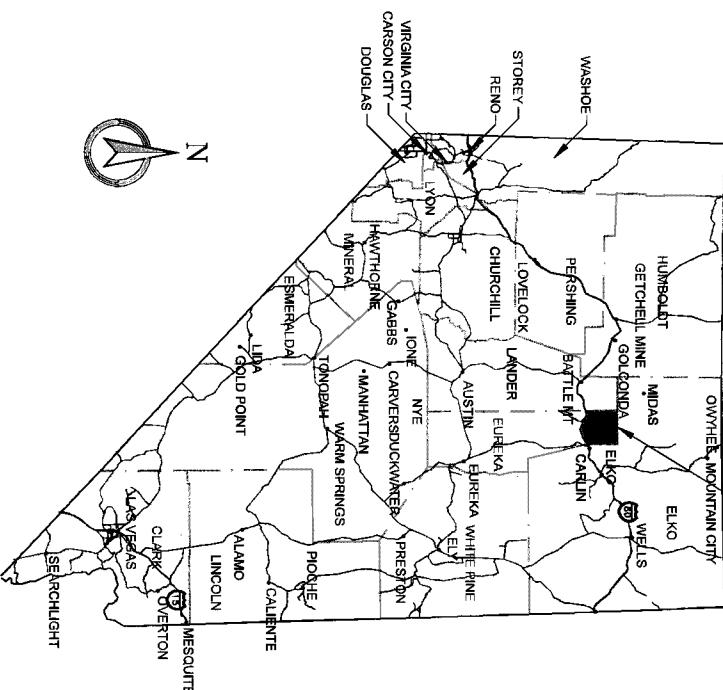
NEWMONT MINING CORPORATION
GOLD QUARRY MINE

**MET LAB - BUCKING ROOM
 VENTILATION SYSTEM UPGRADE**

PROJECT NO. CD2448

**ISSUED FOR PERMITTING
 17th FEBRUARY, 2012**

APPROXIMATE
 SITE POSITION



VICINITY MAP

DRAWING INDEX

N.T.S.

DRAWING INDEX	
DRAWING #	DRAWING TITLE
6857-M-001	COVER SHEET
6857-F-002	PROCESS FLOW DIAGRAM
6857-DM-003	DEMOLITION
6857-M-004	PROPOSED
6857-M-005	SECTIONS AND DETAILS
6857-M-006	AIR STACK DETAILS

NTS

Issued for:

Issued by:

NEWMONT



TETRA TECH

LOCATION MAP



COVER SHEET

REVISION



REFERENCE	
FOR COMMENTS	AR
ISSUED FOR PERMITTING	AR
Drawn by:	AR
Approved by:	
Revised by:	
Description	BY
Date	
REVISIONS	

2720 Ruby Vista Drive, Suite 101
 Elko, NV 89011
 Tel. (775) 733-3800 Fax (775) 733-4401

Project: MET LAB - BUCKING ROOM Project no.: CD2448
 Location: CARLIN NEVADA Date: 12/2/11

6857-M-001

EQUIPMENT SPECIFICATIONS

NEW AIR STACK
856-SX-150
NOMINAL CAPACITY: 13,500CFM
REDUCED CAPACITY: 10,500CFM

MAKEUP AIR UNIT
855-AC-01

NEW DIFFERENTIAL PRESSURE
INDICATOR LOCATED INDOOR



LP PRESSURE REDUCING VALVE
SET AT 1/2PSIG
1 1/4" NEW
2 1/2" DIA EXISTING

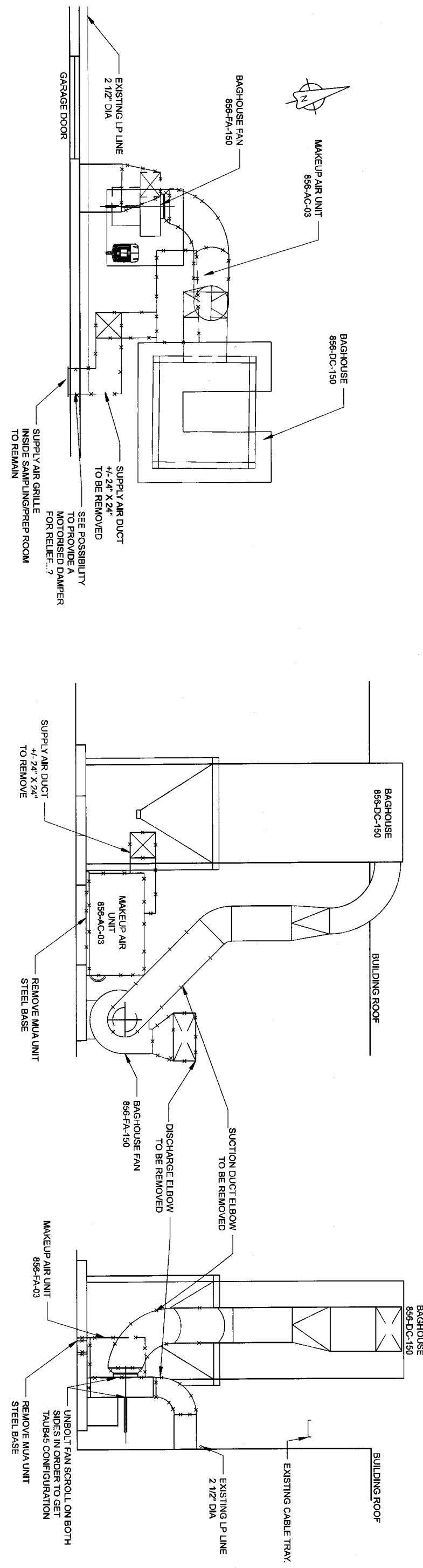
EXISTING BAGHOUSE
856-DC-150
EXISTING BAGHOUSE FAN
856-FA-150

TIE IN BETWEEN
EXISTING AND NEW

1 1/4" DIA

2 1/2" DIA

1 1/4" DIA



PLAN VIEW

NORTH ELEVATION

WEST ELEVATION

PRELIMINARY		AR	11/19/11	Scale: 1/4" = 4'-0"	Issued for:
A	FOR COMMENTS	AR	12/23/11	Designed by: AR	
B	ISSUED FOR PERMITTING	AR	02/17/12	Drawn by: AR	
C				Checked by: AR	
	Approved by:				
Rev.	Description	BY	Date	REVISIONS	

A
 B
 C
 D
 E
 F
 G
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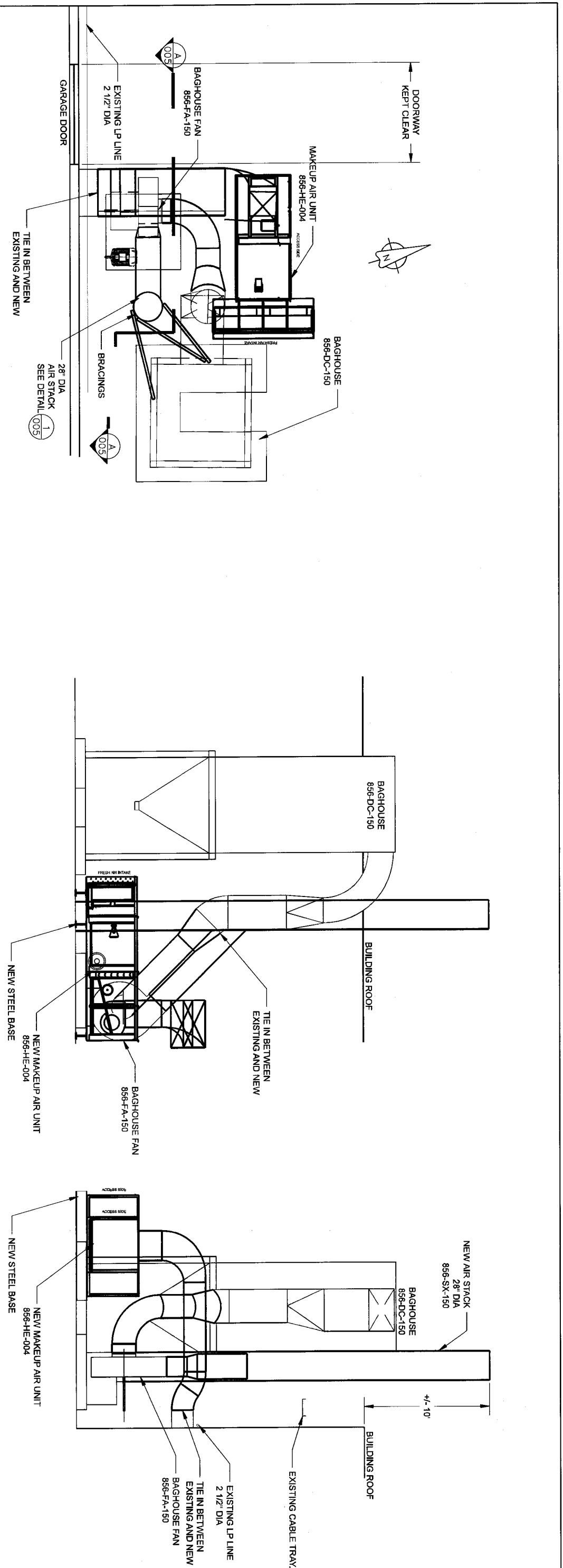
Issued by:

TETRATECH

2720 Ralph Vista Drive, Suite 101

Echo Nv 89001

Tel: (775) 738-3600 Fax: (775) 738-4401



PLAN VIEW

NORTH ELEVATION

WESI ELEVATION

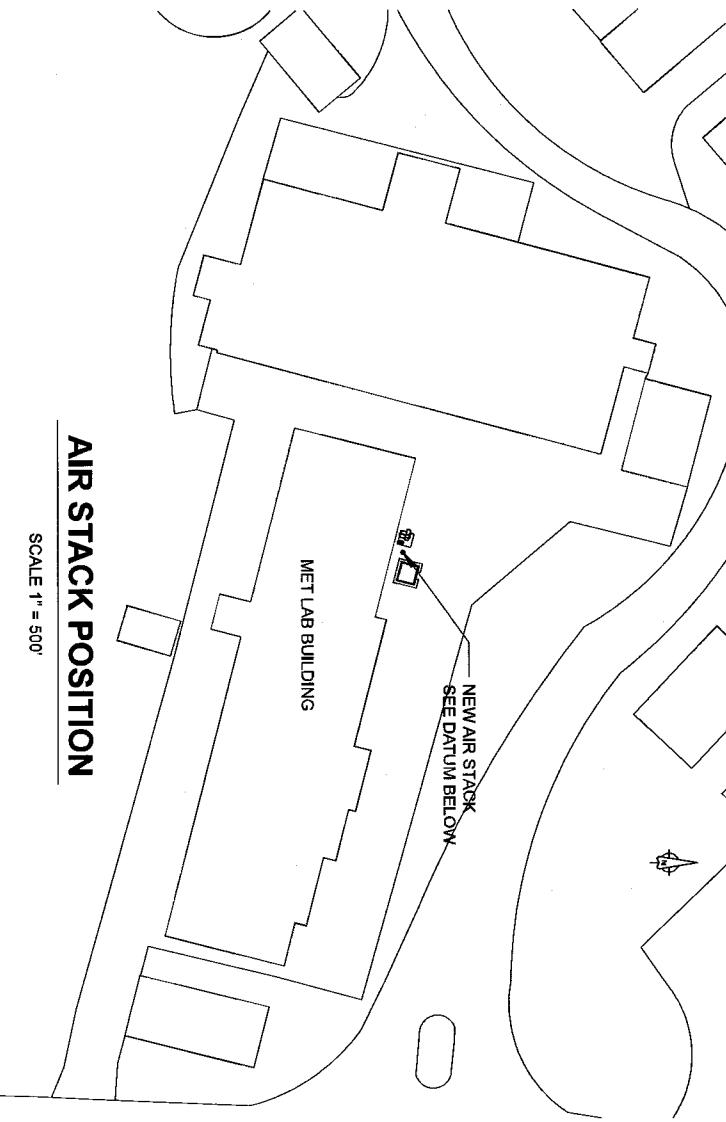
WGS84
LAT. 40DEG 46MIN 57.532 SEC NORTH
LONG. 116DEG 11MIN 11.394SEC WEST
UTM ZONE 11 (METERS)
N 451494.624
E 568636.648

NEW AIR STACK CENTER POSITION DATUM:

N 197078.3903
E 332956.47.87

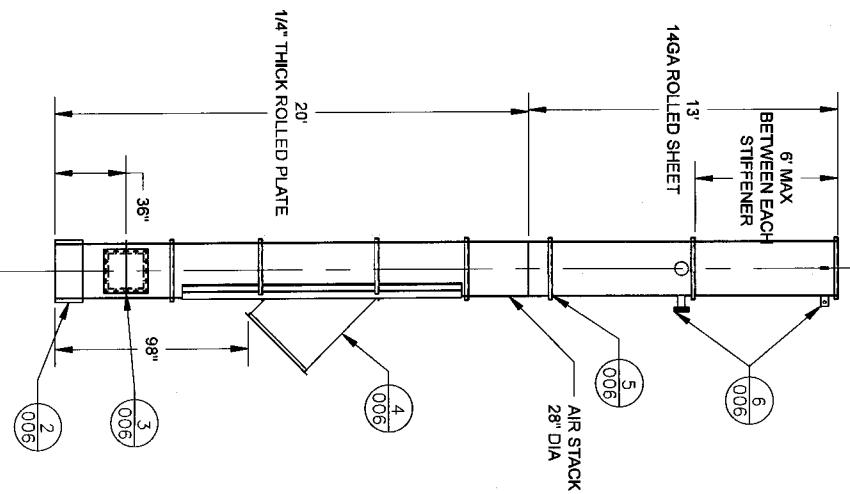
AIR STACK POSITION

SCALE 1" = 50'



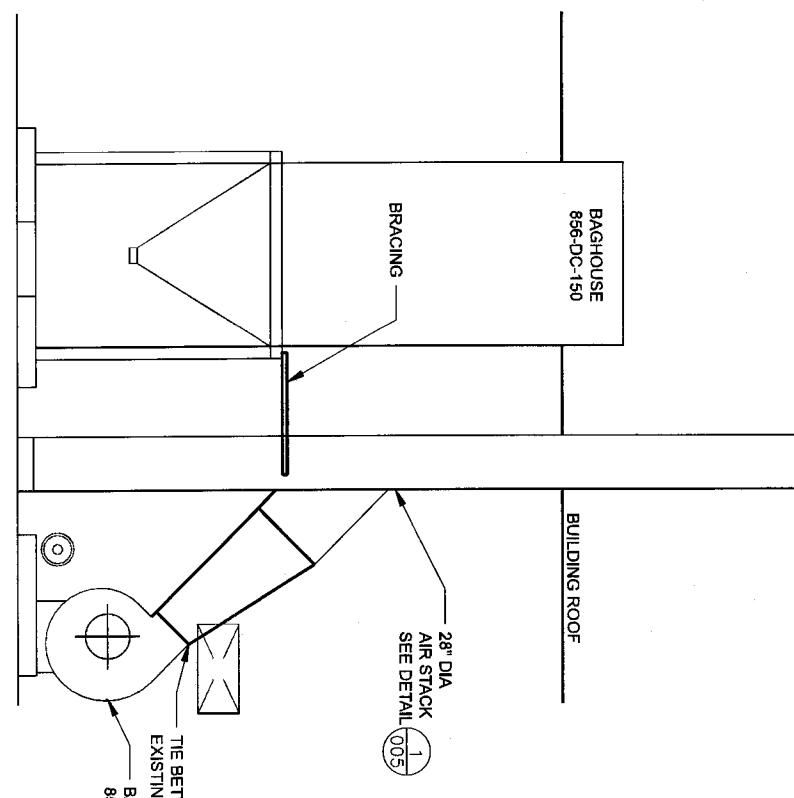
AIR STACK

1
005
SCALE: 1/4" = 1'- 0"



AIR STACK ELEVATION

A
004
SCALE: 1/4" = 1'- 0"



REFERENCE	
A	PRELIMINARY
B	AIR STACK BUDGET
C	FOR COMMENTS
D	ISSUED FOR PERMITTING
E	Approved by:
Rev.	Description
	BY Date
	REVISIONS

Issued by:



TETRA TECH
2720 Ruby Vista Drive Suite 101
Elko, NV 89301
Tel: (775) 738-5800 Fax: (775) 738-4401

SECTIONS & DETAILS



Project: MET LAB - BUCKING ROOM VENTILATION SYSTEM
Upgrade CD-2448

Location: CARIN NEVADA

Date: 11/2011

6857-M-005

5
005

STIFFENERS



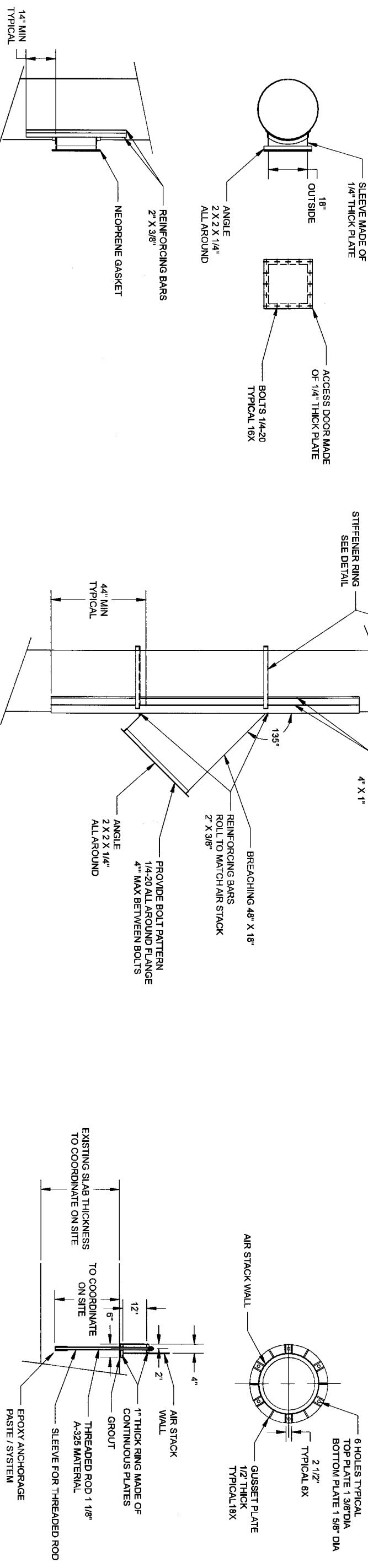
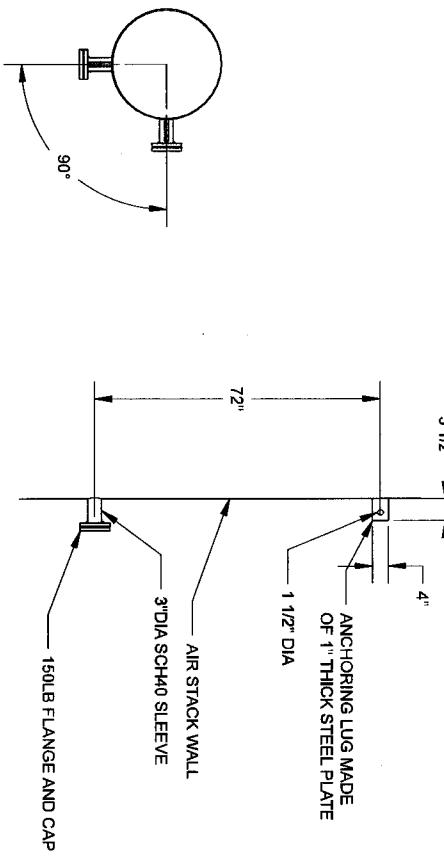
6
005

PLAN VIEW

6
005

SAMPLING PORTS

SIDE VIEW



ACCESS DOOR

BREACHING

AIR STACK BASE

AIR-STACK-BUDGET		AR	11/12/11	Scale: 1/2" = 1'-0"	Issued for:
FOR COMMENTS		AR	12/23/11	Designed by: AR	
ISSUED FOR PERMITTING		AR	02/17/12	Drawn by: AR	
Approved by:					
Rev:	Description	BY	Date	Revisions	Reference

Issued by:

TETRA TECH

2720 Ruby Valley Drive, Suite 101

Elko, NV 89801

Tel: (775) 733-3600 Fax: (775) 733-4011

Project: MET LAB BUCKING ROOM

VENTILATION SYSTEM

UPGRADE

CD-2448

Location: CARLIN, NEVADA

Date: 11/12/11

6857-M-006

REVISION C

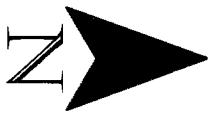


Gold Quarry Operations Overview Map

- ◆ Emission Systems
- Boundary/Fence Line

0 250 500 1,000 1,500 2,000 2,500
Feet

Figure 8.2





Gold Quarry Operations Topo Map

- ◆ Emission Systems
- Boundary/Fence Line

0 250 500 1,000 1,500 2,000 2,500 Feet

FILE: SA.TITLE.V.SYSTEM-95
Created by: Billy Shiley
2/29/2012

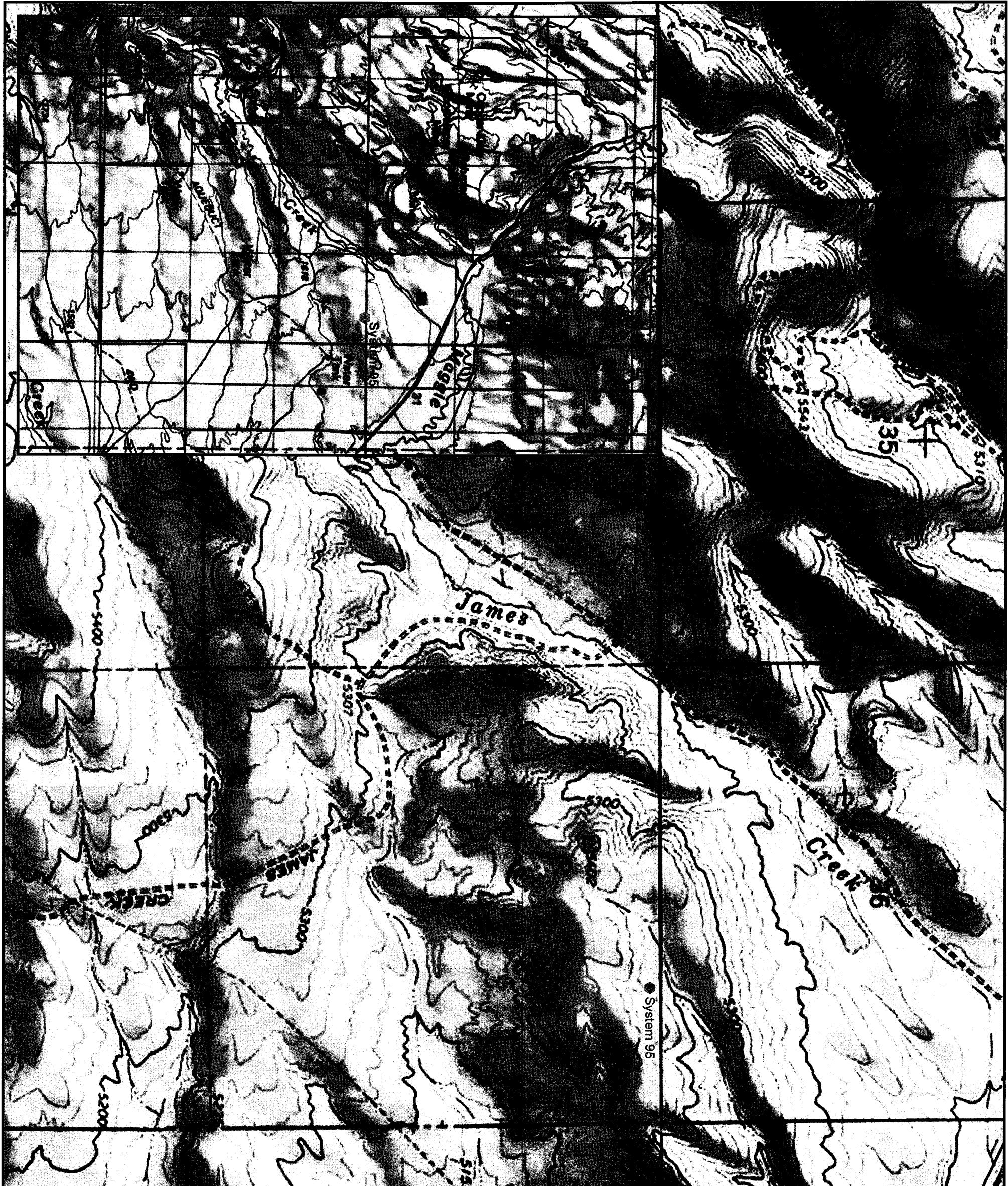


Figure 8.3

Appendix 9

ENVIRONMENTAL EVALUATION AND DISPERSION MODELING FILES

Please Attach Modeling Files and Supporting Information

Appendix 10

OPERATING PERMIT TEMPLATE

Section VI. Specific Operating Conditions

Emission Unit # 2.228 – 2.231 location North 4514.948 km, East 568.637 km, UTM (Zone 11)

System 95 – Met Lab Bucking Room		
S	2.228	Secondary Crusher (856-CR-110)
S	2.229	Secondary Crusher (856-CR-111)
S	2.230	Tertiary Crusher (856-CR-115)
S	2.231	Ball Mill (856-ML-114)

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Air Pollution Equipment

Emissions from S2.228 – S2.231 shall be ducted to a control system consisting of a **Baghouse (855-DC-150)** with 100% capture and a maximum volume flow rate of **13,500** dry standard cubic feet per minute (DSCFM). The volumetric flow rate may be determined by utilizing Method 2 - *Determination of Stack Gas Velocity and Volumetric Flow Rate* as referenced in 40 CFR Part 60, Appendix A.

2. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Emission Limits

- a. On and after the date of startup of S2.228 – S2.231, the permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of **Baghouse (855-DC-150)**, the following pollutants in excess of the following specified limits:

i. NAC 445B.305 Part 70 Program - The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed **1.16** pound per hour, nor more than **5.07** ton per year, based on a 12-month rolling period. This limit is less than the **5.38** pounds per hour maximum allowable emission limit as determined from NAC 445B.22033 and the maximum allowable throughput as limited by D.3.a. of this section.

ii. NAC 445B.305 Part 70 Program - The discharge of PM (particulate matter) to the atmosphere will not exceed **1.16** pound per hour, nor more than **5.07** ton per year, based on a 12-month rolling period. This limit is less than the **5.38** pounds per hour maximum allowable emission limit as determined from SIP 445.732 and the maximum allowable throughput as limited by D.3.a. of this section.

iii. SIP 445.721 (Federally Enforceable SIP Requirement) - The opacity from the exhaust stack of **Baghouse (855-DC-150)** will not equal or exceed 20% for a period or periods aggregating more than 3 minutes in any one hour.

iv. NAC 445B.22017 (State Only Requirement) – The opacity from the exhaust stack of **Baghouse (855-DC-150)** will not equal or exceed 20%.

3. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Operating Parameters

- a. The maximum allowable loading rate for S2.228 – S2.231 will not exceed **1.50** tons of **ore** per any one-hour period.
- b. Hours
S2.228 – S2.231 may operate a total of **8760** hours per year.

4. NAC 445B.3405 (NAC 445B.316) Part 70 Program

a. Monitoring, Record keeping and Compliance

The Permittee, upon issuance of this operating permit will:

- i. Monitor and record the loading rate of lime/cement/soda ash, in tons for S2.228 – S2.231 each day loading occurs.
- ii. Monitor and record the hours of operation for S2.228 – S2.231 each day loading occurs.
- iii. Monitor and record that the maintenance and operation of **Baghouse (855-DC-150)** is in accordance with the manufacturer's and/or the permittee's operation and maintenance guidelines, on a monthly basis. Monthly records must show that observations were made, and records of any corrective actions taken.
- iv. Conduct and record an annual check of all bags contained in **Baghouse (855-DC-150)**.
- v. Conduct and record a weekly visible emission survey of **Baghouse (855-DC-150)** during silo loading and indicate whether any visible emissions were observed. If no visible emissions are observed during the survey of **Baghouse (855-DC-150)**, then no further observations are required. If any visible emissions are observed, conduct and record a Method 9 visible emissions test within 24 hours and perform any necessary corrective actions. The Method 9 visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.

Section VI. Specific Operating Conditions

Emission Unit # 2.228 – 2.231 location North 4514.948 km, East 568.637 km, UTM (Zone 11)

System 95 – Met Lab Bucking Room		
S	2.228	Secondary Crusher (856-CR-110)
S	2.229	Secondary Crusher (856-CR-111)
S	2.230	Tertiary Crusher (856-CR-115)
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1. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Air Pollution Equipment

Emissions from S2.228 – S2.231 shall be ducted to a control system consisting of a Baghouse (855-DC-150) with 100% capture and a maximum volume flow rate of 13,500 dry standard cubic feet per minute (DSCFM). The volumetric flow rate may be determined by utilizing Method 2 - *Determination of Stack Gas Velocity and Volumetric Flow Rate* as referenced in 40 CFR Part 60, Appendix A.

2. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Emission Limits

- a. On and after the date of startup of S2.228 – S2.231, the permittee will not discharge or cause the discharge into the atmosphere from the exhaust stack of Baghouse (855-DC-150), the following pollutants in excess of the following specified limits:

i. NAC 445B.305 Part 70 Program - The discharge of PM (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed 1.6 pound per hour, or more than 5.07 ton per year, based on a 12-month rolling period. This limit is less than the 5.38 pounds per hour maximum allowable emission limit as determined from NAC 445B.303 and the maximum allowable throughput as limited by D.3.a. of this section.

ii. NAC 445B.305 Part 70 Program - The discharge of PM (particulate matter) to the atmosphere will not exceed 1.16 pound per hour, or more than 5.07 ton per year, based on a 12-month rolling period. This limit is less than the 5.38 pounds per hour maximum allowable emission limit as determined from SIP 445.732 and the maximum allowable throughput as limited by D.3.a. of this section.

iii. SIP 445.721 (Certainly Enforceable SIP Requirement) - The opacity from the exhaust stack of Baghouse (855-DC-150) will not equal or exceed 20% for a period or periods aggregating more than 3 minutes in any one hour.

iv. NAC 445B.22017 (State Only Requirement) - The opacity from the exhaust stack of Baghouse (855-DC-150) will not equal or exceed 20%.

3. NAC 445B.3405 (NAC 445B.316) Part 70 Program

Operating Parameters

- a. The maximum allowable loading rate for S2.228 – S2.231 will not exceed 1.50 tons of ore per any one-hour period.

b. Hours

S2.228 – S2.231 may operate a total of 8760 hours per year.

4. NAC 445B.3405 (NAC 445B.316) Part 70 Program

a. Monitoring, Record keeping and Compliance

The Permittee, upon issuance of this operating permit will:

- i. Monitor and record the loading rate of lime/cement/soda ash, in tons for S2.228 – S2.231 each day loading occurs.
- ii. Monitor and record the hours of operation for S2.228 – S2.231 each day loading occurs.
- iii. Monitor and record that the maintenance and operation of Baghouse (855-DC-150) is in accordance with the manufacturer's and/or the permittee's operation and maintenance guidelines, on a monthly basis. Monthly records must show that observations were made, and records of any corrective actions taken.
- iv. Conduct and record an annual check of all bags contained in Baghouse (855-DC-150).
- v. Conduct and record a weekly visible emission survey of Baghouse (855-DC-150) during silo loading and indicate whether any visible emissions were observed. If no visible emissions are observed during the survey of Baghouse (855-DC-150), then no further observations are required. If any visible emissions are observed, conduct and record a Method 9 visible emissions test within 24 hours and perform any necessary corrective actions. The Method 9

- vi. Conduct and record a weekly reading of differential pressure on **Baghouse (855-DC-150)** and verify that the differential reading is within the range established by the manufacturer.
- vii. The required monitoring established in (i.) through (v.) above will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that **S2.228 – S2.231** is operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily loading of lime/cement/soda ash, in tons, for the corresponding date.
 - (c) The total daily hours of operation for the corresponding date.
 - (d) The corresponding average hourly loading of lime/cement/soda ash, in tons per hour. The average hourly loading rate will be determined from the daily loading rate and the total daily hours of operation recorded in (b) and (c) above.
 - (e) Results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.
 - (f) The results of the weekly differential pressure readings for **Baghouse (855-DC-150)**.
 - (g) Records and results of the annual check of bags contained in **Baghouse (855-DC-150)**.

5. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Shielded Requirements

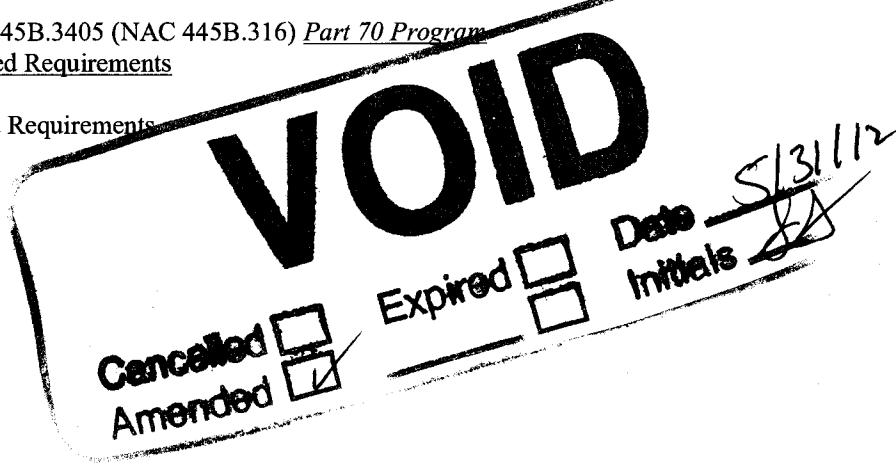
No Shielded Requirements

visible emissions test will be conducted by a certified visible emissions reader in accordance with 40 CFR Part 60, Appendix A, Method 9.

- vi. The required monitoring established in (i.) through (v.) above will be maintained in a contemporaneous log containing at a minimum, the following record keeping for each day, or part of a day that S2.228 – S2.231 is operating:
 - (a) The calendar date of any required monitoring.
 - (b) The total daily loading of lime/cement/soda ash, in tons, for the corresponding date.
 - (c) The total daily hours of operation for the corresponding date.
 - (d) The corresponding average hourly loading of lime/cement/soda ash, in tons per hour. The average hourly loading rate will be determined from the daily loading rate and the total daily hours of operation recorded in (b) and (c) above.
 - (e) Results and verification of the weekly visible emissions survey, and documentation of any Method 9 visible emission tests that were undertaken, including all documents required under 40 CFR Part 60, Appendix A.
 - (f) Records and results of the annual check of bags contained in Baghouse (855-DC-150).

5. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Shielded Requirements

No Shielded Requirements



Appendix 11

APPLICATION CERTIFICATION

APPLICATION CERTIFICATION

Certification of application content consisting of the following:

(Please check each of the appropriate boxes to indicate the information provided in your application submittal)

General Company Information

General Company Information Form

Emission Unit Application Forms (Appendix 1)

Industrial Process Application Form(s)

Combustion Equipment Application Form(s)

Storage Silos Application Form(s)

Liquid Storage Tank Application Form(s)

Surface Area Disturbance Form(s)

Insignificant Emissions Unit Information (Appendix 2)

Insignificant Emissions Unit Information Form(s)

Facility-Wide Applicable Requirements (Appendix 3)

Table 1 - Facility-Wide Applicable Requirements

Streamlining and Shield Allowance (Appendix 4)

Streamlining Demonstration

Facility-Wide Potential To Emit Tables (Appendix 5)

Table 1 - Facility-Wide Potential To Emit

Table 2 - Insignificant Activities Potential To Emit

Detailed Emissions Calculations (Appendix 6)

Detailed Emissions Calculations Provided

Emissions Cap Information (Appendix 7)

Emissions Cap Information Provided

Process Narrative, Process Flow Diagram, Plot Plan, Map, Dust Control Plan (Appendix 8)

Process Narrative Provided

Flow Diagram Provided

Plot Plan Provided

Map Provided

Dust Control Plan Provided

Dispersion Modeling Files (Appendix 9)

Dispersion Modeling Provided

Draft Operating Permit (Appendix 10)

Draft Operating Permit Provided

Application Certification (Appendix 11)

Application Certification

Additional Information Requested by the Director

Any Additional Information Required by the Director

PLEASE NOTE THE FOLLOWING REQUIREMENTS WHICH APPLY TO PERMIT APPLICANTS DURING THE APPLICATION PROCESS:

- A. A permit applicant must submit supplementary facts or corrected information upon discovery [NAC 445B.297.1(b)].
- B. A permit applicant is required to provide any additional information which the Director requests in writing within the time specified in the Director's request [NAC 445B.297.1(c)].
- C. Submission of fraudulent data or other information may result in prosecution for an alleged criminal offense (NRS 445B.470).

CERTIFICATION: I certify that, based on information and belief formed after reasonable inquiry, the statements contained in this application are true, accurate and complete.



Signature of Responsible Official

Mike Schaffner, Manager Carlin Process Operations

Print or Type Name and Title



Date